Black Horse Pike Regional School District Curriculum

ENGAGING STUDENTS • FOSTERING ACHIEVEMENT • CULTIVATING 21ST CENTURY GLOBAL SKILLS

Course Name: MATH FOUNDATIONS 1 – Math 180

Course Number: 113130

PART I: UNIT RATIONALE

WHY ARE STUDENTS LEARNING THIS CONTENT AND THESE SKILLS?

Course/Unit Title: Math Foundations I – Math 180 Grade Level(s):	Unit Summary: In this unit students develop an understanding of fraction equivalence.
Essential Question(s): How do you understand the meaning of fraction equivalence? How do you represent equal parts of a whole as fractions. How do you represent numbers greater than 1?	 Enduring Understanding(s): Students will be able to: Represent equal parts of a whole as fractions. Compose non-unit fractions and wholes from unit fractions. Compare fractions using visual models and represent with equations and inequalities. Communicate reasoning about the relative sizes of fractions. Solve problems by writing and evaluating equations with fractions. Extend understanding of unit fractions. Add with fraction models. Represent numbers greater than 1 as fractions or mixed numbers. Represent and solve additive problems with fractions using models.

PART II: INSTRUCTIONAL STRATEGIES AND RESOURCES DESCRIBE THE LEARNING TARGETS.

After each target, identify the NJSLS or Common Core Standards that are applicable

Learning Target	NJSLS or CCS
	CCSS:
Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade to solve problems involving information presented in line plots. For example, given different measurements of liquid in identical beakers, find the amount of liquid each beaker would contain if the total amount in all the beakers were redistributed equally.	5.MD.B.2
Apply the properties of operations to generate equivalent expressions. For example, apply the distributive property to the expression $3(2 + x)$ to produce the equivalent expression $6 + 3x$; apply the distributive property to the expression $24x + 18y$ to produce the equivalent expression $6(4x + 3y)$; apply properties of operations to $y + y + y$ to produce the equivalent expression $3y$.	6.EE.A.3
Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.	6.G.A.1
Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = l w h$ and $V = b h$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.	6.G.A.2
Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. For example, create a story context for $(2/3) \div (3/4)$ and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that $(2/3) \div (3/4) = 8/9$ because $3/4$ of $8/9$ is $2/3$. (In general, $(a/b) \div (c/d) = ad/bc$.) How much chocolate will each person get if 3 people share $1/2$ lb of chocolate equally? How many $3/4$ -cup servings are in $2/3$ of a cup of yogurt? How wide is a rectangular strip of land with length $3/4$ mi and area $1/2$ square mi?.	6.NS.A.1
Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. For example, interpret $-3 > -7$ as a statement that -3 is located to the right of -7 on a number line oriented from left to right.	6.NS.C.7a
Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. For example, "The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak." "For every vote candidate A received, candidate C received nearly three votes."	6.RP.A.1
Understand the concept of a unit rate a/b associated with a ratio a:b with $b \neq 0$, and use rate language in the context of a ratio relationship. For example, "This recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is 3/4 cup of flour for each cup of sugar." "We paid \$75 for 15 hamburgers, which is a rate of \$5 per hamburger." ¹	6.RP.A.2
Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.	6.RP.A.3
Solve unit rate problems including those involving unit pricing and constant speed. For example, if it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?	6.RP.A.3b
Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.	6.RP.A.3c

Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.	6.RP.A.3d
Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. <i>For example: If a woman making \$25 an hour gets a 10% raise, she will make an additional 1/10 of her salary an hour, or \$2.50, for a new salary of \$27.50. If you want to place a towel bar 9 3/4 inches long in the center of a door that is 27 1/2 inches wide, you will need to place the bar about 9 inches from each edge; this estimate can be used as a check on the exact computation.</i>	7.EE.B.3
Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units. For example, if a person walks $1/2$ mile in each $1/4$ hour, compute the unit rate as the complex fraction $1/2/1/4$ miles per hour, equivalently 2 miles per hour.	7.RP.A.1
Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.	7.RP.A.2a
Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.	7.RP.A.2b
Represent proportional relationships by equations. For example, if total cost t is proportional to the number n of items purchased at a constant price p, the relationship between the total cost and the number of items can be expressed as $t = pn$.	7.RP.A.2c
Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points $(0, 0)$ and $(1, r)$ where r is the unit rate.	7.RP.A.2d
Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Larger numbers indicate greater likelihood. A probability near 0 indicates an unlikely event, a probability around 1/2 indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event.	7.SP.C.5
Understand that, just as with simple events, the probability of a compound event is the fraction of outcomes in the sample space for which the compound event occurs.	7.SP.C.8a

Inter-Disciplinary Connections:

Real-World problem solving examples:

To solve problems related to artists, inventors and entrepreneurs. To solve problems in the field of culinary arts, science, space and medical.

Suggested culminating activity: Hands-on culinary activity.

Students will engage with the following text:

Math 180, Scholastic, Inc. 2014

Students will write:

Writing/Open Ended questions: Students analyze function tables to identify and express multiplication patterns with whole numbers. Students use bar models to represent and solve problems by multiplying 1-digit and 2 – digit factors.

PART III: TRANSFER OF KNOWLEDGE AND SKILLS

DESCRIBE THE LEARNING EXPERIENCE.

How will students uncover content and build skills.

Students will uncover and build skills through various classroom activities. Investigating number sense activities, modeling examples, using real-life application, using note-taking strategies, and using SMARTBoard technologies will all be explored. Other learning experiences could include alternative lesson openers, math and history applications, problem solving workshops, interdisciplinary applications and extra examples of problem solving.

Suggested warm-up activities, instructional strategies/activities, and assignments:

Block 4: Fractions Concepts:	Essential Question: How do students use visual models to identify, compare and add fractions, and to represent division problems as
	fractions?
Topic 1 (Lesson 1):	
FOCUS AND MOTIVATE	Do Now! Play the Anchor Video, "Making the Cut."
	The video shows high school students developing their cooking skills while
	Read the preview questions aloud:
	How could you change a recipe from 8 servings to 4?
	Ask students to share their responses to class.
Teach	Lesson Objective: To represent equal parts of a whole as fractions?
Teaching Options	Language Goals: Use the terms: Denominator, fraction, numerator, and whole when describing fractions.
	Teach:
	Play the Instructional Video:
	Model Fractions as Parts of a Whole.
	Model Dividing One Whole:
	Teach the steps to divide one whole into equal parts.
	Step 1: Divide one whole into 2 equal parts.
	Step 2: Divide one whole into 4 equal parts.
	Step 3: Divide one whole into 8 equal parts.
	Play instructional Video: Identify Equal Groups
	Mspace p. 148-149 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
	Students construct an argument to explain how they know that two
	fractions are equivalent.
	Review Building Equivalent Fractions Rows
	Mathematical Practice: Construct Viable Arguments
	Lesson 1: Review Building equivalent fractions rows
Dreatics and Analy	Solve problems in pairs on <i>mSpace</i> pages 148-149
Practice and Apply	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction, Pair Share.
	Group 2: Student Software:

		Explore Zone
		Learn Zone/Fast Track: Think, Try, Practice, Master
		Brain Arcade: Students are responsible to complete 20 minutes in the
		Brain Arcade per week for homework.
	Assess and Reteach	Challenge: Respond to common patterns of Thinking.
	Differentiating Instruction	Elicit Student Trinking Modify Tasks
	-	Using Data to Differentiate Checkpoint #1:
		Use Groupinator to analyze student data and recommend groups and
		differentiated instruction lessons for each rotation.
		Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons
		Boost Lesson based on software data.
		Stretch Lesson based on software data.
	Accommodations/Modifications:	Students can work on additional software as a supplement to class
		Instruction.
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	Topic 1 (Lesson 2):	
	Teach	Lesson Objective: Compose non unit fractions and wholes from unit
	Teaching Options	fractions.
		Language Goals:
		Use the term unit fraction when explaining or justifying a solution.
		Explain how to compose a fraction from two or more unit fractions.
		Do Now: Reason about Numbers <i>Mspace</i> p. 146
		Teach:
		Play the Instructional Video:
		Use Fraction Models.
		Teach the steps to add fractions to make 1 using fraction pieces
		Step 1: Write an equation with fractions.
		Use the Vocabulary Routine to teach unit fractions.
		Step 2: Reorder the fraction pieces.
		Step 4: Combine fractions.
		Mathematical Practice: Make Use of Structure
		Mspace p. 150-151 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
-	Checking for Understanding	Summarize and Assess:
	checking for onderstanding	Students construct an argument to explain how they know that two
		fractions are equivalent.
		Review adding unit fractions Mathematical Practice: Construct Viable Arguments
		Lesson 2: Review adding unit fractions
		Exit Ticket: <i>mSpace</i> p. 151
	Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 150-151.
	Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
		group guided instruction, Pair Share.
		Explore Zone
		Learn Zone/Fast Track: Think, Try, Practice, Master
		Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the
		Brain Arcade per week for homework.
	Assess and Reteach	Challenge: Respond to common patterns of Thinking.
	Differentiating Instruction	Elicit Student Thinking Modify Tasks
		Using Data to Differentiate Checkpoint #1:
		Use Groupinator to analyze student data and recommend groups and
		differentiated instruction lessons for each rotation.
		Review Data: Review the performance data and groupings.
		Boost Lesson based on software data.
		Stretch Lesson based on software data.

Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
Topic 1 (Lesson 3):	
Teach Teaching Options	Lesson Objective: Use visual models, equations, and inequalities to compare and represent fractions. Communicate reasoning about the relative sizes of fractions.
	Language Goals: Use the term equivalent when describing fractions. Use language to compare fractions and equations involving fractions.
	Do Now: Create Structure Build It Students create fractions using the given properties. Ask students to share their solutions and what they notice about the fractions they created. Mathematical Practice: Make Use of Structure
	Teach: Play the Instructional Video: Use Models to Compare Fractions.
	Model comparing fractions with pieces: Teach the steps to compare fractions using fraction pieces. Mspace p. 152-153 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Students use fraction pieces to compare two fractions that have unlike denominators. Exit Ticket: <i>mSpace</i> p. 153
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 152-153.
Accigning Homowork	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach Differentiating Instruction	Challenge: Respond to common patterns of Thinking. Elicit Student Thinking
-	Using Data to Differentiate Checknoint #1:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Stretch Lesson related to software data
Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
Topic 1 (Lesson 4):	
Teach Teaching Options	Lesson Objective: Compare fractions using visual models and represent with equations.
	Language Goals: Use the terms denominator, equivalent, numerator, and unit fraction to describe actions in Fraction Action (Level 1). Describe ideal scenarios in the game Fraction Action (Level 1).
	Do Now: Develop Reasoning Skills Which Does Not Belong?
	Students analyze the relative size and structure of fraction pieces to arrange them mentally or physically to solve this problem. Ask students to share solutions and explain their reasoning.

	Mathematical Practice: Make Use of Structure
	leach:
	To practice building fraction models and writing matching expressions
	Teach:
	Fraction Action (Level 1)
	Step 1: Roll the fraction cube.
	Step 2: Write the fraction rolled on the recording sheet.
	Step 3: Place the fraction piece that matches the fraction rolled on top of the one-whole piece
	Step 4: When the one-whole piece is completely covered, write an
	equation to match.
	Goal: To cover the one-whole fraction piece.
	Play: Eraction Action (Loval 1) in pairs on mCases
	names 154–157
	Materials: Red fraction cubes and fraction pieces.
Checking for Understanding	Summarize and Assess:
	number of rolls to win a game of Fraction Δ ction
	Exit Ticket: <i>mSpace</i> p. 157
Practice and Apply	Play game in pairs on <i>mSpace</i> pages 154-157.
Assigning Homework	Computer Software:
	group guided instruction, Pair Share.
	Group 2: Student Software:
	Explore Zone
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Topic 1 (Lesson 5):	
Teach	Lesson Objective: Solve problems by writing and evaluating equations with
Teaching Options	fractions.
	Language Goals:
	Use the terms equivalent, greater than, and less than to discuss pan
	balance problems.
	Do Nowy Dovolon Flowible Thinking
	Brain Teaser
	Students use specific criteria and fraction pieces to make one whole. Ask
	students to share solutions and verify with fraction pieces.
	Mathematical Practice:
	Use Tools Strategically
	Teach:
	Model a Pan Balance Problem:
	Leach the steps to identify an unknown quantity using a pan balance.
	Step 1. Analyze the problem.
	Step 3: Solve the problem.
	Step 4: Check your work.
	Grade-Level Content Connections: Expressions & Equations
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
0	Students review solving fraction problems with equivalence.
Duranting and Areal	Exit Licket: <i>mSpace</i> p. 159 Solve problems in pairs on <i>mSpace</i> pages 158-150
Practice and Apply	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction, Pair Share.
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone

	Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #1:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Stretch Lesson based on software data
Accommodations/Modifications:	Students can work on additional software as a supplement to class
Accommodations/would allons.	instruction.
Topic 2 (Lesson 1):	
Teach	Lesson Objective: Extend understanding of unit fractions.
Tooshing Ontions	,
reaching Options	Language Goals:
	Use the terms denominator and numerator when describing fractions.
	Use mathematical vocabulary to explain the relationship among thirds,
	sixuis, tweiruis, and one whole.
	Do Now:
	Evaluate Solutions: Who's Right?
	Students review the work of Amir and Lola and decide who recorded the
	fraction equivalence correctly. Ask students to share their responses and
	ask why they think Lola answered incorrectly.
	Mathematical Practice: Model With Mathematics
	Teach:
	Play the Instructional Video: Model Fraction Equivalence
	Model Dividing One Whole:
	Teach the steps to divide a whole into thirds, sixths, and twelfths.
	Step 1: Divide one whole into 3 equal parts.
	Step 2: Divide one whole into 6 equal parts.
	Step 3: Divide one whole into 12 equal parts. Mspace p. 160-163 Guided Practice: Demonstrate Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
	Students use fraction pieces to compare two fractions that have unlike
	denominators.
_	Exit Licket: <i>mSpace</i> p. 163
Practice and Apply	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction, Pair Share.
	Group 2: Student Software:
	Learn Zone/Fast Track: Think. Trv. Practice. Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Chanenge: Respond to common patterns of Thinking.
Differentiating Instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #2:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
Accommodations/Modifications:	instruction

	Topic 2 (Lesson 2):	
	Teach	Lesson Objective: Add fractions with unlike denominators using models.
	Teaching Options	Language Goals: Use the terms denominator, equal, numerator, and simplest form to explain fraction equivalence. Explain how to show that 5/6 is equivalent to 1/3+ 2/4.
		Do Now: Develop Number Sense Tell Me All That You Can Students evaluate the fraction 1/2 and demonstrate an understanding of the quantity with their responses. Ask students to share their solutions and explain how they know a fraction is equivalent to 1/2. Mathematical Practice: Reason Abstractly
		Teach: Play the Instructional Video: Use Models to Add Fractions. Model Adding Fractions: Teach the steps to add 1/3+ 2/4 by using fraction shapes. Step 1: Model the addition expression. Mathematical Practice: Model With Mathematics Step 2: Use fraction pieces to find the sum. Step 3: Use different fraction pieces to find the sum. Grade-Level Content Connections: Expressions & Equations Mspace p. 164-165 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
	Checking for Understanding	Summarize and Assess: Students use fraction pieces to compare two fractions that have unlike denominators. Exit Ticket: <i>mSpace</i> p. 165
	Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 164-165.
	Assigning Homework	Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
	Assess and Reteach	Challenge: Respond to common patterns of Thinking.
	Differentiating Instruction	Elicit Student Thinking Modify Tasks Using Data to Differentiate Checkpoint #2: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
	Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
	Topic 2 (Lesson 3):	
	Teach	Lesson Objective: Add fractions with unlike denominators using models.
	Teaching Options	Language Goals: Explain how to identify equivalence using fraction pieces while playing Fraction Action. Identify Numerical Patterns Find the Pattern
		Students use their knowledge of adding fractions to identify the pattern.

	Ask students to share solutions and explain how they began solving the problem.
	Teach:
	Purpose: To practice adding with fraction models and identifying
	equivalent fractions.
	Teach Fraction Action (Level 2)
	Step 2: Choose one of three actions:
	Remove fraction pieces equivalent to the fraction rolled.
	Exchange a fraction piece for equivalent pieces.
	Goal: To uncover the one-whole piece.
	Mspace p. 166-169 Guided Practice: Demonstrate, Solve Together
Checking for Understanding	Summarize and Assess:
checking for onderstanding	Students use fraction pieces to compare two fractions that have unlike
	denominators.
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 166-169.
Assigning Homework	Computer Software:
Assigning nonework	aroup guided instruction. Pair Share.
	Group 2: Student Software:
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
•	Using Data to Differentiate Checkpoint #2:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
Accommodations/Madifications:	Stretch Lesson related to software data. Students can work on additional software as a supplement to class
Accommodations/ modifications.	instruction.
lopic 2 (Lesson 4):	
Teach	Lesson Objective: Represent fractions greater than 1 as fractions or mixed numbers
Teaching Options	
	Language Goals:
	Explain how to create a mixed number using fraction pieces.
	Do Now: Develop Reasoning Skills
	Which Does Not Belong?
	Students analyze a group of fractions to determine which one does not
	beiong. Ask a student to share and explain why that fraction does not belong.
	Mathematical Practice: Persevere and Solve Problems
	Teach
	Play the Instructional Video: Model Fractions Greater Than 1.
	Model Adding Fractions With Sum Greater Than 1:
	Teach the steps to add 1/3, 1/3, 1/4, 1/6 and 1/6.
	Step 2: Use fraction pieces to find the sum.
	Step 3: Name the sum.
	Step 4: Rename the sum as a mixed number.

	Mspace p. 170-171 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
checking for onderstanding	Students use fraction pieces to compare two fractions that have unlike
	denominators.
Due sties and Analy	Exit Licket: <i>mSpace</i> p. 1/1 Solve problems in pairs on <i>mSpace</i> pages 170-171
Practice and Apply	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction, Pair Share.
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone Brain Arcada, Studente are regnoncible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
	Modify Tasks
	Using Data to Differentiate Checkpoint #2:
	differentiated instruction lessons for each rotation
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
Accommodations/Wodifications:	instruction.
Tonic 2 (Losson E):	
Topic 2 (Lesson 5).	Lesson Objective: Depresent and solve additive problems with fractions
Teach	using models.
Teaching Options	
	Language Goals:
	Explain how to use fraction pieces to solve contextualized fraction
	problems.
	Do Now:
	Develop Flexible Thinking
	Brain Teaser Students analyze the given characteristics of an unknown
	share their responses and ask what the new fraction would be if the
	numerator changed.
	Mathematical Practice: Attend to Precision
	Teach:
	Model How to Solve a Problem:
	much banana is used in a smoothie recine
	Read It!: Read and identify the problem.
	Show It!: Represent the problem.
	Solve It!: Solve the problem.
	Check It!: Check your work. Msnace n 172-173 Guided Practice: Demonstrate Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
0	Students use fraction pieces to compare two fractions that have unlike
	denominators. Evit Ticket: mSnace p. 172
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 172-173.
Assigning Homowork	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	aroup duided instruction, Pair Share.
	Group 2: Student Software
	Group 2: Student Software: Explore Zone
	Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master
	Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the

Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #2:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation
	Paview Data: Paview the performance data and groupings
	Neview Data. Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class
	instruction.
Topic 3 (Lesson 1):	
Teach	Lesson Objective: Represent sharing situations with fractions. Use
Tooching Ontions	patterns to connect fractions to division.
reaching Options	
	Language Goals:
	Explain how to use fraction shapes to solve sharing problems.
	Do Now:
	Develop Flexible Thinking
	Brain Teaser - Students solve this problem by recognizing the dividend
	and divisor of a division problem. Ask students to share their solutions
	and evident their reasoning
	dilu explain their reasoning.
	Mathematical Practice: Make use of Structure
	Tooch
	leduli.
	Play the Instructional Video:
	Model Fractions as Division.
	Model Representing Division as Fractions:
	Teach the steps to represent $2 \div 3$ as a fraction using fraction shapes.
	Step 1: Write the division expression.
	Step 2: Divide the wholes into equal parts.
	Step 3: Share the parts equally.
	Mathematical Practice:
	Model With Mathematics
	Sten 4: Write the equations
	Menace n 176-177 Guided Practice: Demonstrate Solve Together
	Practice: Solve problems in pairs
Charling for Understanding	Summarize and Access
Checking for Understanding	Summanze and Assess.
	denominators
	Chit Tielet, mCreen 177
	EXIL HICKET: <i>INSPACE</i> p. 177
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 1/6-1//.
Assigning Homework	Computer Software:
	on a uaily basis, students are split into two groups: Group 1: Whole
	Group 2: Student Software:
	Stoup 2. Student Software.
	LAPIDIC ZUIC Learn Zone/East Tracky Think Thy Dractice Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade, Students are responsible to complete 20 minutes in the
Assess and Data ask	Challenge: Respond to common patterns of Thinking
Assess and Reteach	Chanchyc, Respond to common patterns of Thilliking.
Differentiating Instruction	Elicit Studefit Thiliking
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data
	Stretch Lesson related to software data
	Students can work on additional coftware as a supplement to class
Accommodations/Modifications:	instruction
	IIISU UCUON.

Topic 3 (Lesson 2):	
Teach	Lesson Objective: Use patterns to connect fractions to division.
Teaching Options	Language Goals: Explain how to identify equivalence using fraction pieces while playing Fraction Action.
	Do Now: Identify Numerical Patterns Find the Pattern Students make sense of quantities as they reason about the fractions within and outside the circle. Ask students to share the rule and the fraction they added to the circle. Mathematical Practice: Reason Abstractly
	Teach: (Set-up) Purpose: To practice creating equivalent fractions.
	Teach Fraction Action (Level 3) Step 1: Roll the fraction cube. Step 2: Choose one of three actions:
	Remove fraction pieces equivalent to the fraction rolled. Exchange a fraction piece for equivalent pieces. If no actions are possible, skip a turn.
	Goal: To uncover the one-whole piece. Mspace p. 178-179 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Students use fraction pieces to compare two fractions that have unlike denominators. Exit Ticket: <i>mSpace</i> p. 179
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 178-179.
Assigning Homework	Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking Modify Tasks Using Data to Differentiate Checkpoint #3: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Topic 3 (Lesson 3):	
Teach Teaching Options	Lesson Objective: Represent whole numbers as fractions with given denominators.
	Language Goals: Explain how fraction shapes help to identify a pattern connecting fractions to division.
	Do Now: Create Structure Build It - Students apply their understanding about fractions and mixed numbers to fractions greater than 1. Ask students to share solutions and explain their reasoning. Mathematical Practice: Reason Abstractly

	Teach: (Set-up)
	Play the Instructional Video:
	Express Whole Numbers as Fractions.
	Model Expressing Whole Numbers as Fractions:
	Teach the steps to represent 4 wholes as fractions by using fraction
	shapes.
	Step 1: Use fraction shapes to show whole numbers.
	Step 2: Create a list.
	Step 3: Look for a pattern and define a rule.
	Step 4: Apply the rule.
	Mspace p. 178-181 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
Checking for Understanding	Students use fraction pieces to compare two fractions that have unlike
	denominators
	Celioninators.
	Exit licket: <i>mSpace</i> p. 181
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 178-179.
Assigning Homework	Computer Software:
Assigning nomework	On a daily basis, students are split into two groups: Group 1: whole
	group guided Instruction, Pair Share.
	Group 2: Student Software:
	Explore Zone
	Learn Zone, Task Track: Think, Try, Practice, Master
	Success 2011e Brain Arcado: Students are responsible to complete 20 minutes in the
	Brain Arcade, Students die responsible to complete 20 minutes in the
	Challen and Designed to common methods of Thinking
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
	Modify Tasks
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
Topic 3 (Lesson 4):	
	Lange Objective Democrat charing ait stime with firstings and gived
Teach	Lesson Objective: Represent sharing situations with fractions and mixed
Teaching Options	numbers.
	Language Goals:
	Explain the connection between the remainder of a division problem and
	fractions.
	Do Now:
	Evaluate Solutions - Who's Right?
	Students evaluate other students' work and their approaches to division.
	Ask students to identify the correct solutions and explain the error in the
	incorrect solution.
	Mathematical Practice: Persevere and Solve Problems
	Teach: (Set-un)
	Play the Instructional Video.
	Represent Remainders as Fractions.
	Model Dividing With Fractional Remainders
	Teach the steps to write 97/3 as a mixed number by dividing
	Step 1: Write the fraction as a division problem
	Step 1. While the nation as a division problem.
	Step 2. Ose the partial quotient method to divide.
	Step 5. Rename the remainder as a fraction.
	Grade-Level Content Connections: The Number System
	Progradu Solve problems in pairs
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
	Students use fraction pieces to compare two fractions that have unlike
	denominators.
	Exit Ticket: <i>mSpace</i> p. 185
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 184-185.
	Computer Software:

Assigning Homework	On a daily basis, students are split into two groups. Group 1: whole
Assigning Homework	group guided instruction, Pair Share.
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
	Elicit Student Thinking
Differentiating Instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Boost Lesson related to software data
	Stretch Lesson related to software data.
Topic 3 (Lesson 5):	
Teach	Lesson Objective: Analyze and solve problem situations with fractions
Teaching Ontions	using models and equations. Describe and explain solution strategies for
	problems with fractions.
	Explain solution strategies for fraction problems
	Do Now:
	Develop Flexible Thinking Brain Teaser
	Students analyze the given characteristics of an unknown fraction and
	solve the riddle by identifying the fraction. Ask students to share their
	Mathematical Practice: Lice Tools Strategically
	Teach:
	Model Solving a Compare Problem:
	Teach the steps to solve a compare problem using fraction pieces.
	Read It!: Read and identify the problem.
	Show It!: Represent the problem.
	Check Itl. Check your work
	Mspace p. 186-187 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
	Students use fraction pieces to compare two fractions that have unlike
	Exit Ticket: mSpace p. 187
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 186-187.
	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction, Pair Share.
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
Assess and Poteach	Challenge: Respond to common patterns of Thinking
	Elicit Student Thinking
Differentiating Instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Pidit Instruction: based on Rotations, access digital lessons. Boost Lesson related to software data
	Stretch Lesson related to software data

Block 4 Performance Task	
Teach	Lesson Objective: Take the Chef's Challenge-Students use models to
Teaching Options	represent the addition of fractions.
	Teach:
	Replay Anchor Video – "Making the Cut."
	Complete the Performance task Mspace p. 188-189
	Evaluate:
	Explore, Apply, and Analyze
Practice and Apply	Computer Software:
Assigning Homework	group guided instruction, Pair Share.
	Group 2: Student Software:
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone Brain Arcado: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Hick Student Thinking Modify Tasks
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data. Stretch Lesson related to software data.
mSkills Curriculum Based	Review:
Assessment 4	To prepare students for mSkills:
	Download the Block 4 mSkills Strategy Lesson, Student Pages,
	and Annotated Student Pages to give students targeted practice with assessment item types based on current Block content
	You may also teach the mSkills Demo Lesson to give students a general
	overview of assessment item types based on prerequisite content.
	Evolution
	Evaluate: To administer mSkills:
	Go to Class Settings and assign the mSkills assessment to students.
	Have students log in to the student software.
	Allow students to review the Problem-Solving Routine in the
	Administer:
	Reference Guide.
	The first 20 items will be digitally graded and available in Class
	Analytics Zone Progress.
	Enter scores to the constructed-response items in the
	Have students complete the Mindset Strategy in their mSpaces to
	reflect on their performance in the Block.

PART IV: EVIDENCE OF LEARNING IDENTIFY THE METHODS BY WHICH STUDENTS WILL DEMONSTRATE THEIR UNDERSTANDING OF CONTENT AND THEIR ABILITY TO APPLY SKILLS. IDENTIFY BLOOM'S LEVELS.

Creating Evaluating Analyzing Applying Understanding Remembering

Formative Assessments:

The effectiveness of the instructional program will be based on teacher observations, students doing quality of work together, questioning strategies, self and peer assessment, student record-keeping, quizzes, tests, homework, class discussion, individual conferences, performance tasks, diagnostic tests, homework, and projects

Accommodations/Modifications:

Use manipulatives to build patterns or represent symbols. Provide Graphic organizers to use in solving problems. Provide guided notes/handouts. Break problems into smaller pieces. Have students keep and turn in a notebook. Review needed skills prior to the lesson. Provide checklists for solving problems.

Summative Assessments:

Periodic chapter tests, state assessments, PSATs, End of Course tests, and SATs

Accommodations/Modifications:

Provide checklists for solving problems. Provide students with a resource page that has multiplication charts, fractions pieces. Break problems and test sections into smaller pieces

Performance Assessments:

Projects, display of student work, and google classroom

Accommodations/Modifications:

Allow students extra time to complete projects. Provide students with an example of project for reference. Make a clear rubric for students to understand exactly what is expected.

PART I: UNIT RATIONALE

Course/Unit Title: Math Foundations I – Math	Unit Summary: In this unit students develop an understanding of fraction relationships.
Grade Level(s):	
Essential Question(s):	Enduring Understanding(s):
How do you compare	Students will be able to:
fractions?	Compare Fractions with common features.
	Identify fractions equivalent to ½.
	Use benchmarks to compare fractions.
	Use reasoning to compare fractions.
	Order fractions to solve problems.
	Name equivalent fractions
	Use equivalence to compare fractions.
	Locate Fractions on a number line.
	Use strategies to compare fractions.
	To subtract fractions with a number line.
	To use equivalence to add fractions.
	To use an open number line to subtract.
	To use strategies to compare sums.

WHY ARE STUDENTS LEARNING THIS CONTENT AND THESE SKILLS?

PART II: INSTRUCTIONAL STRATEGIES AND RESOURCES

DESCRIBE THE LEARNING TARGETS.

After each target, identify the NJSLS or Common Core Standards that are applicable

	NJSLS or CCS
Learning Target	CCSS:
Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade to solve problems involving information presented in line plots. <i>For example, given different measurements of liquid in identical beakers, find the amount of liquid each beaker would</i>	5.MD.B.2-
contain if the total amount in all the beakers were redistributed equally.	5.NBT.A.3b
Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.	6.NS.C.7a
Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. For example, interpret $-3 > -7$ as a statement that -3 is located to the right of -7 on a number line oriented from left to right.	
	6.NS.C.7b
Write, interpret, and explain statements of order for rational numbers in real-world contexts. For example, write $-3 \ ^{\circ}C > -7 \ ^{\circ}C$ to express the fact that $-3 \ ^{\circ}C$ is warmer than $-7 \ ^{\circ}C$.	
Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. <i>For example, for</i>	6.NS.C.7c
an account balance of -30 dollars, write $ -30 = 30$ to describe the size of the debt in dollars.	6.NS.C.7d

Distinguish comparisons of absolute value from statements about order. For example, recognize that an account balance less than –30 dollars represents a debt greater than 30 dollars.	7.NS.A.1d
Apply properties of operations as strategies to add and subtract rational numbers.	8.NS.A.2
Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., π^2). For example, by truncating the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.	

Inter-Disciplinary Connections:

Real-World problem solving examples:

To solve problems related to artists, inventors and entrepreneurs. To solve problems in the field of culinary arts, science, space and medical.

Students will engage with the following text:

Math 180, Scholastic, Inc. 2014

Students will write:

Writing/Open Ended questions: Students analyze function tables to identify and express multiplication patterns with whole numbers. Students use bar models to represent and solve problems by multiplying 1-digit and 2 – digit factors.

PART III: TRANSFER OF KNOWLEDGE AND SKILLS

DESCRIBE THE LEARNING EXPERIENCE.

How will students uncover content and build skills.

Students will uncover and build skills through various classroom activities. Investigating number sense activities, modeling examples, using real-life application, using note-taking strategies, and using SMARTBoard technologies will all be explored. Other learning experiences could include alternative lesson openers, math and history applications, problem solving workshops, interdisciplinary applications and extra examples of problem solving.

Suggested warm-up activities, instructional strategies/activities, and assignments:

Block 5: Comparing Fractions	Essential Question: How do students develop strategies to compare
with common features:	fractions, identify equivalent fractions, and add and subtract fractions.
Topic 1 (Losson 1):	
	Do Nowl
FOCUS AND MOTIVATE	Play the Anchor Video, "Have a Heart." Read the preview question aloud: If you were part of a transplant team, which job would you want? Ask students to share their responses with the class.
Teach Teaching Options	Lesson Objective: Use reasoning to compare fractions with common features
	Language Goals: Use the phrases greater than and less than to compare fractions.
	Teach: Play the Instructional Video: Compare Fractions With Common Features. Model Comparing Fractions With Common Features: Teach the steps to compare fractions using comparison strategies. Step 1: Compare unit fractions. Step 2: Compare with common numerators. Step 3: Compare with common denominators. <i>Mspace</i> p. 6-7 Guided Practice: Demonstrate, Solve Together Practice: Solve archlems in pairs
Checking for Understanding	Summarize and Assess: Review Comparing Fractions With Common Features Exit Ticket: <i>mSnace</i> p. 7
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 6-7.
Assigning Homework	Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach Differentiating Instruction	Challenge: Respond to common patterns of Thinking. Elicit Student Thinking Modify Tasks
	Using Data to Differentiate Checkpoint #1: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson based on software data. Stretch Lesson based on software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
Topic 1 (Lesson 2):	
Teach	Lesson Objective: Identify fractions equivalent to 1/2. Analyze patterns in
Teaching Options	numerators and denominators in fractions equivalent to $\frac{1}{2}$.
	Language Goals: Describe the relationship between the numerator and denominator in a fraction equal to 1/2.
	Do Now: Develop Reasoning Skills Which Does Not Belong? Students analyze the set of fractions and identify the one that does not fit the pattern. Ask students to share solutions and explain the strategy they used. Mathematical Practice: Use Repeated Reasoning

	Teach: Play the Instructional Video: Identify Fractions Equivalent to 1/2. Model Identifying Fractions Equivalent to 1/2: Teach the steps of writing fractions equivalent to 1/2. Step 1: Build fraction rows equivalent to 1/2. Step 2: Find the rule. Step 3: Write fractions equivalent to 1/2 with a given denominator.
	Step 4: Write fractions equivalent to 1/2 with a given numerator. <i>Mspace</i> p. 8-9 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Review Identifying Fractions Equivalent to 1/2 Exit Ticket: mSpace p. 9
Bractice and Apply	Solve problems in pairs on <i>mSpace</i> pages 8-9
	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #1:
	Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each retation
	anterenuated instruction lessons for each rotation. Review Data: Review the performance data and groupings
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson based on software data.
	Stretch Lesson based on software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
Topic 1 (Lesson 3):	
Teach	Lesson Objective: Use $\frac{1}{2}$ and 1 as benchmarks to compare fractions.
Teaching Options	Language Cooley, Lies mythistics and division terms to describe
	generating fractions equivalent to 1/2. Use the term benchmark when comparing fractions.
	Do Now:
	Students evaluate possible solutions to a riddle until they find the correct
	fraction. Ask students to share solutions and explain their reasoning. Mathematical Practice: Persevere and Solve Problems
	Teach:
	Play the Instructional Video:
	Use Benchmarks to Compare Fractions.
	Teach the steps of comparing fractions by using 1/2and 1 as
	benchmarks.
	Step 1: Compare fractions to 1.
	Step 2: Verify with fraction pieces.
	Step 5. Compare fraction nieces
	Grade-Level Content Connections:
	The Number System
	Mspace p. 10-11 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Review Comparing Fractions With Benchmarks
	Exit Ticket: mSpace p. 11

Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 10-11.
Assigning Homework	Computer Software:
	aroun guided instruction. Pair Share.
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #1:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Stratch Lesson related to coffware data
Accommodations (Madifications)	Students can work on additional software as a supplement to class
Accommodations/wodifications:	instruction
/	
Topic 1 (Lesson 4):	
Teach	Lesson Objective: Use $\frac{1}{2}$ and 1 as benchmarks to compare fractions.
Teaching Ontions	Language Coals: Lise the terms henchmark, common
reaching options	denominator common numerator greater than and
	less than to discuss comparing fractions.
	Do Now: Identify Numerical Patterns
	FIND the Pattern Students analyze the group of fractions in the circle to identify and use a
	rule to write a fraction that belongs in the circle. Ask students to share
	solutions and explain their reasoning.
	Mathematical Practice:
	Make Use of Structure
	Teach:
	Purpose:
	To practice comparing fractions to a benchmark of 1/2.
	leach
	Step 1: Each player turns over one card
	Step 2: Both players record the fraction.
	Step 3: Players compare their fraction to 1/2.
	Step 4: The player with the fraction greater than 1/2captures both cards.
	GODI: To capture the most cards by the end of 10 rounds
	To capture the most cards by the child of 10 rounds.
Checking for Understanding	Summarize and Assess:
0	Review Game Strategy
	Mathematical Practice: Attend to Precision
	How do you know who wins the round?
	Player wins the round because
	Exit Ticket: mSpace p. 12-15
Practice and Apply	Play game in pairs on <i>mSpace</i> pages 12-15.
Assigning Homework	On a daily basis students are split into two groups: Group 1: whole
0 0	group guided instruction, Pair Share.
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Torris 1 (Lasson E)	
Topic 1 (Lesson 5):	

		Losson Objective: Use equivalence and comparison to classify fractions and
	Teach	solve problems Justify solutions to fraction problems
	Teaching Options	
		Language Goals: Use the terms greater than and less than when comparing and arranging numbers sequentially from least to greatest.
		Do Now: Evaluate Solutions Who's Right?
		Students compare the effectiveness of two plausible arguments and determine which student's reasoning is correct. Ask students to share responses and explain their reasoning. Mathematical Practice: Construct Viable Arguments
		Teach: Model Comparing a Set of Fractions: Teach the steps to compare multiple fractions. Step 1: Analyze the problem. Step 2: Compare with common features. Step 3: Compare with benchmarks. Step 4: Check your work. Mspace p. 16-17 Guided Practice: Demonstrate, Solve Together
-	Checking for Understanding	Summarize and Assess: Students review solving fraction problems with equivalence.
-	Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 16-17.
		Computer Software:
	Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework
-	Assess and Reteach	Challenge: Respond to common patterns of Thinking.
	Differentiating Instruction	Elicit Student Thinking Modify Tasks Using Data to Differentiate Checkpoint #1: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson based on software data. Stretch Lesson based on software data.
-	Accommodations/Modifications:	Students can work on additional software as a supplement to class
		instruction.
	Topic 2 (Lesson 1):	
	Teach Teaching Options	Lesson Objective: Generate equivalent fractions. Describe relationships among fractions.
		Language Goals: Explain how to determine whether a fractions is in simplest form.
		Do Now: Analyze Problems Missing Numbers Students use a set of numbers to fill in boxes and build fractions equivalent to 1/2. Ask several students to share their solutions and their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Name Equivalent Fractions. Model Naming an Equivalent Fraction:
		dividing.

	Step 1: Use multiplication to generate equivalent fractions.
	Step 2: Verify with fraction pieces.
	Step 3: Use division to generate equivalent fractions.
	Step 4: Verify with fraction pieces.
	<i>Mspace</i> p. 20-21 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
	Students use fraction pieces to compare two fractions that have unlike
	denominators.
	Exit Ticket: <i>mSpace</i> p. 21
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 20-21.
Assigning Homework	Computer Software:
Assigning Homework	aroun guided instruction. Pair Share
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
A	Challenge: Respond to common patterns of Thinking
Assess and Reteach	Elicit Student Thinking
Differentiating Instruction	Modify Tasks
-	Using Data to Differentiate Checknoint #2
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class
•	instruction.
Topic 2 (Lesson 2):	
Teach	Lesson Objective: Compare fractions by generating equivalents. Describe
Teaching Outless	relationships among fractions.
reaching Options	
	Language Goals:
	Use the term rename when generating equivalent fractions.
	Explain reasoning for choosing a strategy to compare fractions.
	Do Nouu
	Identify Numerical Patterns
	Find the Pattern
	Students analyze the set of numbers in the circle and outside the circle to
	identify a rule. Ask students to name the rule and examples of numbers
	that also belong in the circle.
	Mathematical Practice: Make Use of Structure
	leach:
	Play the Instructional Video:
	Use Equivalence to Compare Fractions.
	Teach the steps to compare 5/6 and 7/10 by reparing with common
	denominators
	Step 1: Identify a compare strategy
	Step 2: Find a common denominator.
	Step 3: Rename the fractions.
	Step 4: Compare the fractions.
	Grade-Level Content Connections:
	The Number System
	Mspace p. 24-25 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess
	Students use fraction pieces to compare two fractions that have unlike
	Students use fraction pieces to compare two fractions that have unlike denominators.

Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 24-25.
Assigning Homework	Computer Software:
	aroup guided instruction. Pair Share.
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #2:
	differentiated instruction lessons for each rotation
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class
	instruction.
Topic 2 (Lesson 3):	
Teach	Lesson Objective: Locate fractions on a number line. Describe
Teaching Ontions	relationships among fractions.
reaching options	Language Coole
	Language Goals:
	lines.
	Do Now:
	Evaluate Solutions
	Who's Right?
	Students review the work of Max and Lold and decide who renamed 7/6 correctly. Ask students to share their solution and explain what mistake
	Lola made
	Mathematical Practice: Construct Viable Arguments
	Teach:
	Play the Instructional Video:
	Localing Fractions on a Number Line. Model Building a Number Line:
	Teach the steps to plot halves, fourths, and eighths on a number line
	using fraction pieces.
	Step 1: Locate halves on a number line.
	Step 2: Locate fourths on a number line.
	Step 3: Locate eighths on a number line.
	The Number System
	Mspace p. 26-29 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
	Exit Ticket: <i>mSpace</i> p. 29
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 26-29.
Assigning Homework	Computer Software:
	on a daily dasis, students are split into two groups: Group 1: whole group guided instruction. Pair Share
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
	Elicit Student Thinking

Differentiating Instruction Accommodations/Modifications:	Modify Tasks Using Data to Differentiate Checkpoint #2: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data. Students can work on additional software as a supplement to class instruction.
Topic 2 (Lesson 4):	
Teach Teaching Options	Lesson Objective: Describe relationships among fractions. Language Goals: Use the terms greater than and less than when comparing fractions. Do Now: Develop Flexible Thinking Brain Teaser Students analyze the given characteristic of an unknown number and solve the riddle by identifying the fraction. Ask students to share their responses and explain their reasoning. Mathematical Practice: Persevere and Solve Problems Teach: Purpose: To practice comparing fractions by renaming them with a common denominator. Teach Fraction Grab (Level 2) Step 1: Each player turns over one card. Step 2: Players record their fractions and rename them with a common denominator. Step 3: Players compare the fractions. Step 4: The player with the greater fraction captures both cards. Goal: To capture the most cards by the end of 10 rounds. Mspace p. 26-29 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Students use fraction pieces to compare two fractions that have unlike denominators. Exit Ticket: <i>mSpace</i> p.29
Practice and Apply Assigning Homework	Solve problems in pairs on <i>mSpace</i> pages 26-29. Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach Differentiating Instruction	Challenge: Respond to common patterns of Thinking. Elicit Student Thinking Modify Tasks Using Data to Differentiate Checkpoint #2: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.

Topic 2 (Lesson 5):	
Teach	Lesson Objective: Analyze and solve problems with exactly one, more
Teaching Options	than one or no solutions.
	Language Goals: Explain how a problem can have multiple solutions.
	Do Now: Develop Reasoning Skills Which Does Not Belong? Students analyze a group of fractions to determine which one does not belong. Ask a student to share and ask why that fraction doesn't belong. Mathematical Practice: Reason Abstractly
	Teach: Model Solving a Problem With Multiple Solutions: Teach the steps to solve a problem that has more than one solution. Step 1: Analyze the problem. Step 2: Find common denominators. Step 3: Label the fractions on the number line. Step 4: Solve the problem. Mspace p. 30-31 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Students use fraction pieces to compare two fractions that have unlike denominators. Exit Ticket: <i>mSpace</i> p.31
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 30-31.
Assigning Homework	Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach Differentiating Instruction	Challenge: Respond to common patterns of Thinking. Elicit Student Thinking Modify Tasks Using Data to Differentiate Checkpoint #2: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data
Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
Topic 3 (Lesson 1):	
Teach	Lesson Objective: Subtract fractions with the same denominators.
Teaching Options	Language Goals: Use the term difference when subtracting fractions. Explain how to use a number line to subtract fractions. Do Now: Develop Reasoning Skills- Which Does Not Belong? Students analyze a group of fractions to determine which does not belong. Ask students to share and ask for examples of other numbers that don't belong. Mathematical Practice: Construct Viable Arguments Teach: Play the Instructional Video:
	Subtract Fractions with a Number Line.

Chasking for Understanding	Model Subtracting Fractions with a Number Line: Teach the steps of subtracting numbers on a number line. Step 1: Use a number line to subtract. Step 2: Use a number line to subtract. Step 3: Use a benchmark to subtract. Step 4: Add the distances. Mspace p. 34-35 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
	Students use fraction pieces to compare two fractions that have unlike denominators. Exit Ticket: <i>mSpace</i> p. 35
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 34-35.
Assigning Homework	Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
Assess and Reteach	Challenge: Respond to common patterns of Thinking. Elicit Student Thinking
	Modify Tasks Using Data to Differentiate Checkpoint #3: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Topic 3 (Lesson 2):	Lesson Objective: Add fractions and mixed numbers with different
	denominators. Estimate sums and differences relative to whole numbers.
Teaching Options	 denominators. Estimate sums and differences relative to whole numbers. Language Goals: Explain how to use an estimate to determine whether an answer is reasonable. Do Now: Reason About Numbers Number Strings -Students calculate the sums of fractions mentally by grouping numbers. Ask students to share solutions and explain their strategies. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Use Equivalence to Add Fractions: Teach the steps of adding 1 ½ + 2/3 by renaming fractions. Step 1: Make an estimate. Step 2: Rename the addends. Step 3: Add the fractions. Mathematical Practice: Reason Abstractly Step 4: Rename fractions greater than 1. Mspace p. 36-37 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Students use fraction pieces to compare two fractions that have unlike denominators. Exit Ticket: <i>mSpace</i> p. 37
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 36-37.
	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole

	group guided instruction. Pair Share
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for nomework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
	Modify Lasks
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction. Dased on Rotations, access digital lessons.
	Stratch Lesson related to software data
Topic 3 (Lesson 3):	
Taaah	Lesson Objective: Subtract fractions and mixed numbers with different
Teach	denominators Estimate sums and differences relative to whole numbers
Teaching Options	
	Language Goals:
	Use the terms distance and difference to describe fraction subtraction
	Do Now:
	Analyze Problems
	Missing Numbers
	Students look for entry points to a solution and find the missing
	numbers in the equation. Ask students to share their solutions and
	explain their strategy used.
	Mathematical Practice: Persevere and Solve Problems
	Teach:
	Play the Instructional Video:
	Use an Open Number Line to Subtract.
	Model Using an Open Number Line to Subtract:
	leach the steps to subtract on an open number line.
	Step 1: Introduce the open number line.
	Step 2: Rename fractions.
	Step 3. Use all open number line to subtract.
	Grade-Level Content Connections: The Number System
	Mspace p. 38-39 Guided Practice: Demonstrate Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
	Students use fraction pieces to compare two fractions that have unlike
	denominators.
	Exit Ticket: <i>mSpace</i> p. 39
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 38-39.
Assigning Homework	Computer Software:
Assigning nonework	On a daily basis, students are split into two groups: Group 1: whole
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	
	Moully Lasks
	Using Data to Differentiate Checkpoint #3:
	differentiated instruction lessons for each retation
	Unterendated instruction ressons for each rotation.
	Plan Instruction: Based on Potations, access digital lessons
	Roost Lesson related to software data
	Stretch Lesson related to software data
	Succer Lesson related to software data.

Topic 3 (Lesson 4):	
Teach Teaching Options	Lesson Objective: Add fractions and mixed numbers with unlike denominators. To use benchmarks to add fractions. Use benchmarks to estimate fraction sums and differences.
	Language Goals: Use the terms addend and sum when describing addition. Use the terms greater than and less than when comparing fractions.
	Do Now: Develop Estimation Skills Make an Estimate Students estimate a sum to determine if an argument is correct. Ask
	without calculating. Mathematical Practice: Construct Viable Arguments
	Teach: (Set up) Purpose: To practice adding and comparing the sums of fractions. Teach Fraction Grab (Level 3) Step 1: Each player turns over two cards.
	Step 2: Players record their fractions and rename them with a common denominator.Step 3: Players add their fractions and record their sum and their partner's sum.
	Step 4: The player with the greater sum captures all four cards. Goal: To capture the most cards in 10 rounds. <i>mSpace</i> pages 40-43.
Checking for Understanding	Summarize and Assess: Review Game Strategy Mathematical Practice: Attend to Precision Circle the player who wins the round. Can you tell which sum is greater without adding the fractions?
	Explain.sum is greater than sum because Exit Ticket: <i>mSpace</i> p. 43
Practice and Apply Assigning Homework	Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach Differentiating Instruction	Challenge: Respond to common patterns of Thinking. Elicit Student Thinking Modify Tasks Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Topic 3 (Lesson 5):	
Teach Teaching Options	Lesson Objective: Represent and solve additive problem situations with fractions using models and equations. Estimate sums and differences relative to benchmark numbers.
	Language Goals: Use the terms bar model and benchmark to discuss solving contextualized problems.
	Do Now:

	Develop Elevitele Thisking
	Brain Teaser -Students analyze the given characteristics of an unknown
	fraction and solve the riddle by identifying the fraction. Ask students to
	share their responses and explain how they began working on the riddle. Mathematical Practice: Make Use of Structure
	Teach: Madel Calving a Drahlami
	Teach the steps to solve a part-part-whole problem.
	Read It!: Read and identify the problem.
	Show It!: Represent the problem.
	Solve It!: Solve the problem. Check It!: Check your work
	Mspace p. 44-45 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Students use fraction pieces to compare two fractions that have unlike
	denominators.
	Exit Ticket: <i>mSpace</i> p. 45
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 44-45.
Assigning Homework	Computer Software:
	group guided instruction, Pair Share.
	Group 2: Student Software:
	Explore Zone
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
Assess and Datasah	Brain Arcade per week for nomework.
Assess and Reteach	Elicit Student Thinking
Differentiating Instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and differentiated instruction loscons for each rotation
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
Block 5 Performance Task	
Teach	Lesson Objective: Match Organs for Transplants-Students add fractions
Teaching Options	to calculate total travel times.
- .	Teach:
	Replay Anchor Video – "Have a Heart."
	Introduce Performance Task.
	Complete the Performance task Mispace p. 46-47
	Students will be evaluated based on Performance Task Rubric
	Explore, Apply, and Analyze
Practice and Apply	Computer Software:
Assigning Homework	a daily basis, suddents are split into two groups: Group 1: whole group guided instruction, Pair Share.
	Group 2: Student Software:
	Explore Zone
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Elicit Student Thinking
Differentiating Instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and
	uncremutated instruction lessons for each rotation. Review Data: Review the performance data and groupings
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.

mSkills Curriculum Based	Review:
Assessment 5	To prepare students for mSkills: Download the Block 5 mSkills Strategy Lesson, Student Pages, and Annotated Student Pages to give students targeted practice with assessment item types based on current Block content. You may also teach the mSkills Demo Lesson to give students a general overview of assessment item types based on prerequisite content. Evaluate: To administer mSkills: Go to Class Settings and assign the mSkills assessment to students. Have students log in to the student software. Administer:
	Reference Guide. The first 20 items will be digitally graded and available in Class Analytics Zone Progress. Enter scores to the constructed-response items in the SDP using the Scoring Rubric. Have students complete the Mindset Strategy in their mSpaces to reflect on their performance in the Block.



Formative Assessments:

The effectiveness of the instructional program will be based on teacher observations, students doing quality of work together, questioning strategies, self and peer assessment, student record-keeping, quizzes, tests, homework, class discussion, individual conferences, performance tasks, diagnostic tests, homework, and projects

Accommodations/Modifications:

Use manipulatives to build patterns or represent symbols. Provide Graphic organizers to use in solving problems. Provide guided notes/handouts. Break problems into smaller pieces. Have students keep and turn in a notebook. Review needed skills prior to the lesson. Provide checklists for solving problems.

Summative Assessments:

Periodic chapter tests, state assessments, PSATs, End of Course tests, and SATs

Accommodations/Modifications:

Provide checklists for solving problems. Provide students with a resource page that has multiplication charts, fractions pieces. Break problems and test sections into smaller pieces

Performance Assessments:

Projects, display of student work, and electronic portfolios

Accommodations/Modifications:

Allow students extra time to complete projects. Provide students with an example of project for reference. Make a clear rubric for students to understand exactly what is expected.

PART I: UNIT RATIONALE

Course/Unit Title:	Unit Summary:	
Math Foundations I Math	In this unit students develop an understanding of multiplying and dividing fractions	
180		
Grade Level(s):		
9		
Essential Question(s):	Enduring Understanding(s):	
How do you multiply and	Students will be able to:	
divide fractions and mixed	 Model parts of a set as fractions. 	
numbers.	Relate parts of a set to multiplication.	
	Multiply unit fractions.	
	 Multiply fractions and whole numbers. 	
	Use properties to multiply fractions.	
	Reason with fraction multiplication.	
	Multiply fractions greater than 1.	
	Solve multi-step problems with fractions.	
	Use models to divide.	
	Divide by unit fractions.	
	Divide any fractions.	
	Use strategies to divide fractions.	
	Identify patterns with fractions.	

WHY ARE STUDENTS LEARNING THIS CONTENT AND THESE SKILLS?

PART II: INSTRUCTIONAL STRATEGIES AND RESOURCES DESCRIBE THE LEARNING TARGETS.

After each target, identify the NJSLS or Common Core Standards that are applicable

Learning Target	
	CCSS:
Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.	5.NF.B.6
Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.	5.MD.A.1
Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade to solve problems involving information presented in line plots. For example, given different measurements of liquid in identical beakers, find the amount of liquid each beaker would contain if the total amount in all the beakers were redistributed equally.	5.MD.B.2
Comparing the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.	5.NF.B.5a
Explaining why multiplying a given number by a fraction greater than 1 results in a product greater than the given number (recognizing multiplication by whole numbers greater than 1 as a familiar case); explaining why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; and relating the principle of fraction equivalence $a/b = (n \times a)/(n \times b)$ to the effect of multiplying a/b by 1.	5.NF.B.5b
Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.	5.NF.B.6

Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.	6.G.A.1
Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = l w h$ and $V = b h$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.	6.G.A.2
Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.	7.G.B.6
Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as $(-1)(-1) = 1$ and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts.	7.NS.A.2a -
Apply properties of operations as strategies to multiply and divide rational numbers.	7.NS.A.2c

Inter-Disciplinary Connections:

Real-World problem solving examples:

To solve problems related to artists, inventors and entrepreneurs. To solve problems in the field of culinary arts, science, space and medical.

Students will engage with the following text:

Math 180, Scholastic, Inc. 2014

Students will write:

Writing/Open Ended questions: Students analyze function tables to identify and express multiplication patterns with whole numbers. Students use bar models to represent and solve problems by multiplying 1-digit and 2 – digit factors.

PART III: TRANSFER OF KNOWLEDGE AND SKILLS

DESCRIBE THE LEARNING EXPERIENCE.

How will students uncover content and build skills.

Students will uncover and build skills through various classroom activities. Investigating number sense activities, modeling examples, using real-life application, using note-taking strategies, and using SMARTBoard technologies will all be explored. Other learning experiences could include alternative lesson openers, math and history applications, problem solving workshops, interdisciplinary applications and extra examples of problem solving.

Suggested warm-up activities, instructional strategies/activities, and assignments:

Block 6: Model Parts of a Set as Fractions	Essential Question: How can students multiply and divide fractions and mixed numbers?
Topic 1 (Lesson 1):	
FOCUS AND MOTIVATE	Do Now! Play the Anchor Video, "Out of This World." Read the preview question aloud: Which part of a mission to Mars would you want to work on?? Ask students to share their responses with the class.
Teach Teaching Options	Lesson Objective: To represent parts of sets as fractions. Language Goals: Use the term set to describe a group of objects. Explain how to find fractional parts of a set using the array model. Teach: Play the Instructional Video: Model Parts of a Set as Fractions. Teach the steps to find 3/4of 16 using an array. Step 1: Divide the set into equal parts. Step 2: Name one part of the set. Step 3: Name another part of the set. Step 4: Name the chosen part of the set. <i>Mspace</i> p. 52-53 Guided Practice: Demonstrate, Solve Together
Checking for Understanding	Practice: Solve problems in pairs Summarize and Assess: Review Modeling Parts of a Set as Fractions Exit Ticket: <i>mSpace</i> p. 53
Practice and Apply Assigning Homework	Solve problems in pairs on <i>mSpace</i> pages 52-53. Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach Differentiating Instruction	Challenge: Respond to common patterns of Thinking. Elicit Student Thinking Modify Tasks Using Data to Differentiate Checkpoint #1: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson based on software data. Stretch Lesson based on software data
Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
Topic 1 (Lesson 2):	
Teach Teaching Options	Lesson Objective: To multiply whole numbers and unit fractions. To explain the relationship between multiplying by unit fractions and dividing by whole numbers. Language Goals:
	Use of to indicate multiplication. Describe a fraction of a number as the
-------------------------------	--
	product of the fraction and the number.
	Do Now:
	Create Structure
	Build It -Students create fractions with values between 1 and 3 using a set of a numbers. Ack students to share fractions they created and the
	method they used.
	Mathematical Practice: Make Use of Structure
	Teach
	Play the Instructional Video:
	Relate Parts of a Set to Multiplication.
	Model Multiplying a Fraction by a Whole Number:
	Step 1: Multiply a whole number by a unit fraction.
	Step 2: Multiply a unit fraction by a whole number.
	Step 3: Find a fraction of a whole number.
	Missing Provide Tractions of a set to multiplication.
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
	Review Multiplying a Fraction by a Whole Number
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 54-55.
Assigning Homowork	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #1:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson based on software data.
	Stretch Lesson based on software data.
Accommodations/Modifications:	instruction.
Topic 1 (Lesson 3):	
Teach	Lesson Objective: To multiply unit fractions by unit fractions.
Teaching Options	Language Goals: Explain a numerical pattern and use the pattern to
	describe a mathematical rule.
	Do Now: Analyze Problems
	Missing Numbers -Students find the missing numbers in a set of
	equations. Ask students to share their solutions and explain their
	reasoning. Mathematical Practice: Percevere and Solve Problems
	Teach:
	Play the Instructional Video: Multiply Unit Fractions.
	Teach the steps to identify a rule for multiplying unit fractions.
	Step 1: Multiply $\frac{1}{2} \times \frac{1}{4}$ using fraction pieces.
	Step 2: Multiply $1/3 \times \frac{1}{4}$ using fraction pieces.
	Step 3: Multiply 1/4× 1/4using fraction pieces.
	step is write a rule for multiplying unit fractions.

	Mspace p. 56-57 Guided Practice: Demonstrate, Solve Together
Checking for Understanding	Summarize and Assess:
	Review Multiplying Unit Fractions
	Exit Ticket: <i>mSpace</i> p. 57
Practice and Apply	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction, Pair Share.
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone Brain Arcado: Studente are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
U	Ising Data to Differentiate Checknoint #1:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Boost Lesson related to software data
	Stretch Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class
	instruction.
Topic 1 (Lesson 4):	
Teach	Lesson Objective: To multiply unit fractions by unit fractions.
Teaching Options	Language Goals: Lise the terms denominator, factors, numerator
0 1	and product when comparing products with partners.
	De Neur
	Do Now: Develop Flexible Thinking
	Brain Teaser
	Students analyze the puzzle by identifying the structure of the equations
	and multiplying unit fractions to complete the puzzle. Ask students to
	Mathematical Practice:
	Make Use of Structure
	Teach:
	Purpose:
	To practice multiplying unit fractions.
	Teach Less Is More (Level 1)
	Step 1: Koll the number cube three times. Step 2: Create two fractions by choosing two numbers
	Step 3: Multiply your fractions and record the product.
	Step 4: Compare your product with your partner's.
	Goal: To create the lesser product and have the most points after five
Checking for Understanding	Summarize and Assess:
	Exit Ticket: mSpace p. 61
Practice and Apply	Play game in pairs on <i>mSpace</i> pages 58-61.
Assigning Homework	Computer Software:
	group guided instruction, Pair Share.
	Group 2: Student Software:
	Explore Zone Learn Zone/Fast Track: Think, Trv. Practice, Master
	Success Zone
	Prain Arcado: Students are responsible to complete 20 minutes in the
	Brain Arcade, Students are responsible to complete 20 minutes in the

	Topic 1 (Lesson 5):	
	Teach Teaching Options	Lesson Objective: To represents and solve multiplicative comparison problems with fractions using models and equations.
		Language Goals: Use the terms compare problem, fraction, and product to discuss problems.
		Do Now: Develop Number Sense Tell Me All That You Can Students make sense of quantities and their relationships in order to write some understandings they have about the mathematical expression 1/5of 30. Ask students to share their solutions. Mathematical Practice: Reason Abstractly
		Teach: Model Solving a Compare Problem: Teach the steps to identify and solve a compare problem with fractions. Read It!:Read and identify the problem. Show It!:Represent the problem. Solve It!:Solve the problem. Check It!:Check your work. Mspace p. 61-63 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
	Checking for Understanding	Summarize and Assess: Review Solving Compare Problems Exit Ticket: <i>mSpace</i> p. 63
-	Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 62-63.
	Assigning Homework	Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
	Assess and Reteach Differentiating Instruction	Challenge: Respond to common patterns of Thinking. Elicit Student Thinking Modify Tasks Using Data to Differentiate Checknoint #1:
		Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson based on software data. Stretch Lesson based on software data
	Accommodations/Modifications:	Students can work on additional software as a supplement to class
	Topic 2 (Lesson 1):	
-	Teach	Lesson Objective: To multiply fractions and whole numbers.
	Teaching Options	Language Goals: Explain the steps for multiplying fractions and whole numbers. Explain how to know when a fraction is in simplest form.
		Do Now: Reason About Numbers Number Strings Students use properties of operations and number sense to order the factors so they are easy to multiply mentally. Ask students to share solutions and strategies for mental multiplication. Mathematical Practice: Reason Abstractly
		Play the Instructional Video:

Multiply Fractions and Whole Numbers: Teach the steps to multiply 27 × 5/6. Step 2: Multiply the whole numbers. Step 2: A Remark the fraction. Step 2: A Remark the fractions and Whole Numbers. Practice and Apply Assigning Homework Solve problems in pairs on <i>MSteep</i> pages 66-67. Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Stotware: Explore Zone Solve fragment Acade per week for homework. Assess and Reteach Differentiating instruction Weice Reverse to analyze student data and recommend groups and differentiated instruction lessons for acces diptal lessons. Boat Lesson related to software data. Accommodations/Modifications: Student Sam Acade: er week of not notwore. Data to Differentiate analyze student data. Teach Lesson Object		
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Step 1: Listinate the product. Step 2: Rename the fractions and multiply. Step 3: Describe the rule. Step 4: Simplify the product. Grade-Level Content Connections: Geometry Mspace p. 68-69 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Checking for Understanding Summarize and Assess: Review Multiplying Fractions Exit Ticket: mSpace p. 69 Practice and Apply Assigning Homework	Accommodations/Modifications: Topic 2 (Lesson 2): Teach Teaching Options	Students can work on additional software as a supplement to class instruction. Lesson Objective: To multiply fractions. Language Goals: Describe an effective and efficient way to multiply fractions. Use the terms denominator, numerator, and product when multiplying fractions. Do Now: Develop Flexible Thinking - Brain Teaser Students analyze given characteristics and solve the riddle by identifying the children's ages. Ask students to share solutions and explain how they began solving the riddle. Mathematical Practice: Persevere and Solve Problems Teach: Play the Instructional Video: Use Properties to Multiply Fractions. Model Using Properties to Multiply Fractions: Teach the steps to identify a rule by multiplying 2/5x 2/4
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Step 3: Describe the rule. Step 4: Simplify the product. Grade-Level Content Connections: Geometry Mspace p. 68-69 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Checking for Understanding Summarize and Assess: Review Multiplying Fractions Exit Ticket: mSpace p. 69 Practice and Apply Assigning Homework	Accommodations/Modifications: Topic 2 (Lesson 2): Teach Teaching Options	Students can work on additional software as a supplement to class instruction. Lesson Objective: To multiply fractions. Language Goals: Describe an effective and efficient way to multiply fractions. Use the terms denominator, numerator, and product when multiplying fractions. Do Now: Develop Flexible Thinking - Brain Teaser Students analyze given characteristics and solve the riddle by identifying the children's ages. Ask students to share solutions and explain how they began solving the riddle. Mathematical Practice: Persevere and Solve Problems Teach: Play the Instructional Video: Use Properties to Multiply Fractions. Model Using Properties to Multiply Fractions: Teach the steps to identify a rule by multiplying 2/5× 3/4. Step 1: Estimate the product.
Step 4: Simplify the product. Grade-Level Content Connections: Geometry Mspace p. 68-69 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Checking for Understanding Summarize and Assess: Review Multiplying Fractions Exit Ticket: mSpace p. 69 Practice and Apply Assigning Homework	Accommodations/Modifications: Topic 2 (Lesson 2): Teach Teaching Options	Students can work on additional software as a supplement to class instruction. Lesson Objective: To multiply fractions. Language Goals: Describe an effective and efficient way to multiply fractions. Use the terms denominator, numerator, and product when multiplying fractions. Do Now: Develop Flexible Thinking - Brain Teaser Students analyze given characteristics and solve the riddle by identifying the children's ages. Ask students to share solutions and explain how they began solving the riddle. Mathematical Practice: Persevere and Solve Problems Teach: Play the Instructional Video: Use Properties to Multiply Fractions. Model Using Properties to Multiply Fractions: Teach the steps to identify a rule by multiplying 2/5× 3/4. Step 1: Estimate the product. Step 2: Rename the fractions and multiply.
Grade-Level Content Connections: Geometry Mspace p. 68-69 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Checking for Understanding Summarize and Assess: Review Multiplying Fractions Exit Ticket: mSpace p. 69 Practice and Apply Assigning Homework	Accommodations/Modifications: Topic 2 (Lesson 2): Teach Teaching Options	Students can work on additional software as a supplement to class instruction. Lesson Objective: To multiply fractions. Language Goals: Describe an effective and efficient way to multiply fractions. Use the terms denominator, numerator, and product when multiplying fractions. Do Now: Develop Flexible Thinking - Brain Teaser Students analyze given characteristics and solve the riddle by identifying the children's ages. Ask students to share solutions and explain how they began solving the riddle. Mathematical Practice: Persevere and Solve Problems Teach: Play the Instructional Video: Use Properties to Multiply Fractions. Model Using Properties to Multiply Fractions: Teach the steps to identify a rule by multiplying 2/5× 3/4. Step 1: Estimate the product. Step 2: Rename the fractions and multiply. Step 3: Describe the rule.
Mispace p. 68-69 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Checking for Understanding Summarize and Assess: Review Multiplying Fractions Exit Ticket: mSpace p. 69 Practice and Apply Assigning Homework	Accommodations/Modifications: Topic 2 (Lesson 2): Teach Teaching Options	Students can work on additional software as a supplement to class instruction. Lesson Objective: To multiply fractions. Language Goals: Describe an effective and efficient way to multiply fractions. Use the terms denominator, numerator, and product when multiplying fractions. Do Now: Develop Flexible Thinking - Brain Teaser Students analyze given characteristics and solve the riddle by identifying the children's ages. Ask students to share solutions and explain how they began solving the riddle. Mathematical Practice: Persevere and Solve Problems Teach: Play the Instructional Video: Use Properties to Multiply Fractions. Model Using Properties to Multiply Fractions: Teach the steps to identify a rule by multiplying 2/5× 3/4. Step 1: Estimate the product. Step 2: Rename the fractions and multiply. Step 3: Describe the rule. Step 4: Simplify the product.
Practice: Solve problems in pairs Checking for Understanding Summarize and Assess: Review Multiplying Fractions Exit Ticket: mSpace p. 69 Practice and Apply Assigning Homework	Accommodations/Modifications: Topic 2 (Lesson 2): Teach Teaching Options	Students can work on additional software as a supplement to class instruction. Lesson Objective: To multiply fractions. Language Goals: Describe an effective and efficient way to multiply fractions. Use the terms denominator, numerator, and product when multiplying fractions. Do Now: Develop Flexible Thinking - Brain Teaser Students analyze given characteristics and solve the riddle by identifying the children's ages. Ask students to share solutions and explain how they began solving the riddle. Mathematical Practice: Persevere and Solve Problems Teach: Play the Instructional Video: Use Properties to Multiply Fractions. Model Using Properties to Multiply Fractions: Teach the steps to identify a rule by multiplying 2/5× 3/4. Step 1: Estimate the product. Step 2: Rename the fractions and multiply. Step 3: Describe the rule. Step 4: Simplify the product. Grade-Level Content Connections: Geometry
Checking for Understanding Summarize and Assess: Review Multiplying Fractions Exit Ticket: mSpace p. 69 Practice and Apply Solve problems in pairs on mSpace pages 68-69. Computer Software: On a dally basis of tudents are split into two groups: Group 1: whole	Accommodations/Modifications: Topic 2 (Lesson 2): Teach Teaching Options	Students can work on additional software as a supplement to class instruction. Lesson Objective: To multiply fractions. Language Goals: Describe an effective and efficient way to multiply fractions. Use the terms denominator, numerator, and product when multiplying fractions. Do Now: Develop Flexible Thinking - Brain Teaser Students analyze given characteristics and solve the riddle by identifying the children's ages. Ask students to share solutions and explain how they began solving the riddle. Mathematical Practice: Persevere and Solve Problems Teach: Play the Instructional Video: Use Properties to Multiply Fractions. Model Using Properties to Multiply Fractions: Teach the steps to identify a rule by multiplying 2/5× 3/4. Step 1: Estimate the product. Step 2: Rename the fractions and multiply. Step 3: Describe the rule. Step 4: Simplify the product. Grade-Level Content Connections: Geometry Mspace p. 68-69 Guided Practice: Demonstrate, Solve Together
Review Multiplying Fractions Exit Ticket: mSpace p. 69 Practice and Apply Assigning Homework On a dalk basis, students are split into two groups: Group 1: whole	Accommodations/Modifications: Topic 2 (Lesson 2): Teach Teaching Options	Students can work on additional software as a supplement to class instruction. Lesson Objective: To multiply fractions. Language Goals: Describe an effective and efficient way to multiply fractions. Use the terms denominator, numerator, and product when multiplying fractions. Do Now: Develop Flexible Thinking - Brain Teaser Students analyze given characteristics and solve the riddle by identifying the children's ages. Ask students to share solutions and explain how they began solving the riddle. Mathematical Practice: Persevere and Solve Problems Teach: Play the Instructional Video: Use Properties to Multiply Fractions. Model Using Properties to Multiply Fractions: Teach the steps to identify a rule by multiplying 2/5× 3/4. Step 1: Estimate the product. Step 4: Simplify the product. Grade-Level Content Connections: Geometry Mspace p. 68-69 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Exit Ticket: mSpace p. 69 Practice and Apply Assigning Homework On a dalk basis of ultrational structure for the provident structure for the providen	Accommodations/Modifications: Topic 2 (Lesson 2): Teach Teaching Options Checking for Understanding	Students can work on additional software as a supplement to class instruction. Lesson Objective: To multiply fractions. Language Goals: Describe an effective and efficient way to multiply fractions. Use the terms denominator, numerator, and product when multiplying fractions. Do Now: Develop Flexible Thinking - Brain Teaser Students analyze given characteristics and solve the riddle by identifying the children's ages. Ask students to share solutions and explain how they began solving the riddle. Mathematical Practice: Persevere and Solve Problems Teach: Play the Instructional Video: Use Properties to Multiply Fractions. Model Using Properties to Multiply Fractions: Teach the steps to identify a rule by multiplying 2/5× 3/4. Step 1: Estimate the product. Step 2: Rename the fractions and multiply. Step 3: Describe the rule. Step 4: Simplify the product. Grade-Level Content Connections: Geometry Mspace p. 68-69 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Summarize and Assess:
Practice and Apply Solve problems in pairs on <i>mSpace</i> pages 68-69. Assigning Homework On a daily basis, students are split into two groups; Group 1; whole	Accommodations/Modifications: Topic 2 (Lesson 2): Teach Teaching Options Checking for Understanding	Students can work on additional software as a supplement to class instruction. Lesson Objective: To multiply fractions. Language Goals: Describe an effective and efficient way to multiply fractions. Use the terms denominator, numerator, and product when multiplying fractions. Do Now: Develop Flexible Thinking - Brain Teaser Students analyze given characteristics and solve the riddle by identifying the children's ages. Ask students to share solutions and explain how they began solving the riddle. Mathematical Practice: Persevere and Solve Problems Teach: Play the Instructional Video: Use Properties to Multiply Fractions. Model Using Properties to Multiply Fractions: Teach the steps to identify a rule by multiplying 2/5× 3/4. Step 1: Estimate the product. Step 2: Rename the fractions and multiply. Step 3: Describe the rule. Step 4: Simplify the product. Grade-Level Content Connections: Geometry Mspace p. 68-69 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Assigning Homework	Accommodations/Modifications: Topic 2 (Lesson 2): Teach Teaching Options Checking for Understanding	Students can work on additional software as a supplement to class instruction. Lesson Objective: To multiply fractions. Language Goals: Describe an effective and efficient way to multiply fractions. Use the terms denominator, numerator, and product when multiplying fractions. Do Now: Develop Flexible Thinking - Brain Teaser Students analyze given characteristics and solve the riddle by identifying the children's ages. Ask students to share solutions and explain how they began solving the riddle. Mathematical Practice: Persevere and Solve Problems Teach: Play the Instructional Video: Use Properties to Multiply Fractions. Model Using Properties to Multiply Fractions: Teach the steps to identify a rule by multiplying 2/5× 3/4. Step 1: Estimate the product. Step 2: Rename the fractions and multiply. Step 3: Describe the rule. Step 4: Simplify the product. Grade-Level Content Connections: Geometry Mspace p. 68-69 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Summarize and Assess: Review Multiplying Fractions Exit Ticket: mSpace p. 69
	Accommodations/Modifications: Topic 2 (Lesson 2): Teach Teaching Options Checking for Understanding Practice and Apply	Students can work on additional software as a supplement to class instruction. Lesson Objective: To multiply fractions. Language Goals: Describe an effective and efficient way to multiply fractions. Use the terms denominator, numerator, and product when multiplying fractions. Do Now: Develop Flexible Thinking - Brain Teaser Students analyze given characteristics and solve the riddle by identifying the children's ages. Ask students to share solutions and explain how they began solving the riddle. Mathematical Practice: Persevere and Solve Problems Teach: Play the Instructional Video: Use Properties to Multiply Fractions. Model Using Properties to Multiply Fractions: Teach the steps to identify a rule by multiplying 2/5× 3/4. Step 1: Estimate the product. Step 2: Rename the fractions and multiply. Step 3: Describe the rule. Step 4: Simplify the product. Grade-Level Content Connections: Geometry Mspace p. 68-69 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Summarize and Assess: Review Multiplying Fractions Exit Ticket: mSpace p. 69 Solve problems in pairs on <i>mSpace</i> pages 68-69. Computer Software.

	group guided instruction, Pair Share.
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #2:
	Use Groupinator to analyze student data and recommend groups and
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class
	instruction.
Tonic 2 (Lesson 3):	
Teach	Lesson Objective: To multiply fractions.
Teaching Options	Language Goals:
	Use the terms multiply and product to describe game strategy.
	Do Now:
	Make an Estimate
	Students identify expressions that have a product less than both factors
	by estimating. Ask students to share solutions and explain their reasoning.
	Mathematical Practice: Reason Abstractly
	Teach: (Set-up)
	Purpose: To practice multiplying fractions.
	Teach Less is More (Level 2)
	Step 1: Roll the number cube four times. Step 2: Create two fractions less than 1.
	Step 3: Record the product of the two fractions.
	Step 4: Write an inequality to compare your product with your partner's product.
	Goal: To create the lesser product and have the most points after five
	rounds. Mspace p. 70-73 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Review Game Strategy
	Mathematical Practice:
	Use Repeated Reasoning Answer this question: If you rolled these numbers, what fraction would
	you create? 3, 2, 4, 6
	Explain your reasoning. I would create and because
	Exit Ticket: mSpace p. 73
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 70-73.
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction, Pair Share.
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking. Elicit Student Thinking
Differentiating Instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #2:
	Use Groupinator to analyze student data and recommend groups and

	differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
Topic 2 (Lesson 4):	Lesson Objectives To apply the distributive property to multiply mixed
Teach Teaching Options	numbers.
	Language Goals: Use the term Distributive Property when explaining how to find the product of a mixed number and a whole number.
	Do Now: Identify Numerical Patterns Find the Pattern
	Students evaluate expressions in a circle to identify a rule and write an expression that fits the pattern. Ask students to name the rule and share the expressions they added to the circle. Mathematical Practice: Make Use of Structure
	Teach: Play the Instructional Video: Multiply Fractions Greater Than 1. Model Multiplying Mixed Numbers: Teach the stores to multiply 3 × 2.4/5
	Step 1: Rename the mixed number as a sum. Step 2: Apply the Distributive Property. Step 3: Rename the mixed numbers as fractions.
	Mspace p. 74-75 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Review Two Strategies to Multiply Mixed Numbers Exit Ticket: mSpace p.75
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 74-75.
Assigning Homework	Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/East Track: Think Try Practice Master
	Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking Medify Tacks
	Using Data to Differentiate Checkpoint #2:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class
	instruction.
Topic 2 (Lesson 5):	
Teach	Lesson Objective: To analyze and solve multi-step problems with fractions
Teaching Options	using models and equations. To explain and compare solution strategies for problems and fractions.

	Language Goals: Use the terms mixed number and rename to discuss contextualized fraction problems.
	Develop Number Sense Which Does Not Belong? Students analyze a set of numbers to determine which one doesn't belong. Ask students to share and explain their reasoning. Mathematical Practice: Attend to Precision
	Teach: Model Solving a Problem: Teach the steps to identify and solve a part-part-whole problem with fractions. Read It!: Read and identify the problem. Show It!: Represent the problem. Solve It!: Solve the problem. Check It!: Check your work. Mspace p. 76-77 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Review Solving Multi-Step Problems with Fractions Exit Ticket: mSpace p 77
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 76-77.
Assigning Homework	Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
	Using Data to Differentiate Checkpoint #2: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
Topic 3 (Lesson 1):	
Teach Teaching Options	Lesson Objective: To model division with fractions as taking out equal groups.
	Language Goals: Accurately describe taking out equal groups as solutions to division problems.
	Do Now: Create Structure Build It - Students create division equations using a set of numbers. Ask students to share equations and explain their reasoning. Mathematical Practice: Make Use of Structure
	Teach: Play the Instructional Video: Use Models to Divide. Model Dividing With Fraction Shapes: Teach the steps to divide 1 $\frac{3}{4} \div \frac{1}{4}$

	using fraction shapes.
	Step 1: Represent the problem with fraction shapes.
	Step 2: Take out equal groups.
	Step 3: Write the division equation.
	Grade-Level Content Connections: Expressions & Equations
	Mspace p. 80-81 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
	Review Using Models to Divide
	Exit licket: <i>mSpace</i> p. 81
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 80-81.
Assigning Homework	On a daily basis students are split into two groups: Group 1: whole
0 0	aroup guided instruction. Pair Share.
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone Prain Arcado, Studente are reconnecible to complete 30 minutes in the
	Brain Arcade per week for homework
Assass and Datasch	Challenge: Respond to common patterns of Thinking
Assess and Keleach	Flicit Student Thinking
Differentiating Instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
Topic 3 (Lesson 2):	
Tooch	Lesson Objective: To divide by unit fractions using the common
reach	denominator method
Teaching Options	
	Language Goals:
	Use the terms common denominator, mixed number, quotient,
	and simplest form to explain the steps for dividing by unit fractions.
	Do Now:
	Develop Flexible Thinking
	Brain Teaser
	Students analyze the given characteristics of an unknown number and
	solve the riddle by identifying the dividend. Ask students to share their
	responses and share their first step in solving the riddle.
	Mathematical Practice: Persevere and Solve Problems
	Teach
	Play the Instructional Video:
	Divide by Unit Fractions
	Model Dividing Fractions With Common Denominators
	Teach the steps to identifying the common denominator rule by modeling
	division with fraction shapes.
	Step 1: Divide $9/4 \div \frac{3}{4}$ with fraction shapes.
	Step 2: Divide $6/5 \div 3/5$ with fraction shapes.
	Step 3: Divide 10/8÷ 2/8
	with fraction shapes.
	Step 4: Identify the rule.
	Grade-Level Content Connections: Expressions & Equations
	Mspace p. 82-83 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
	Review Dividing Fractions With Common Denominators
	Exit Licket: <i>mSpace</i> p. 83
Practice and Apply	Solve problems in bairs on <i>mSpace</i> pages 82-83.
	Computer Software
Assigning Homework	Computer Software: On a daily basis, students are split into two groups: Group 1: whole
Assigning Homework	Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share.

	Current Dr. Chudant Caferran
	Group 2: Student Software:
	Lapinie Zuile Learn Zone/East Track: Think Try Practice Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
Topic 3 (Lesson 3):	
Teach	Lesson Objective: To divide any fractions using the common denominator
Teaching Ontions	method.
reaching Options	
	Language Goals:
	Use the terms denominator, numerator, and quotient to explain the steps
	in dividing fractions.
	De Neur
	DU NUW. Analyze Problems
	Alialyze Ploblettis Missing Numbers
	Students analyze the given numbers in an equation and find the missing
	numbers. Ask students to share the missing numbers and explain their
	first step.
	Mathematical Practice: Persevere and Solve Problems
	Teach:
	Play the Instructional Video:
	Divide Any Fractions.
	Model Dividing With Common Denominators:
	reach the steps to divide 2 5/6+ 3/8
	Using the common denomination method.
	Step 1: Rename fractions with a common denominator
	Step 3: Divide the fractions.
	Step 4: Simplify the auotient.
	Mspace p. 84-85 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
	Review Dividing Fractions
	EXIT LICKET: <i>mSpace</i> p. 85
Practice and Apply	Computer Software
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction, Pair Share.
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Hack: Think, Hy, Practice, Master
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
Sinci cittating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and
	unrenendated instruction ressons for each rolation.
	Neview Data. Review the performance data drid groupings.
	Roost Lesson related to software data
	Stretch Lesson related to software data

Topic 3 (Lesson 4):	
Teach Teaching Options	Lesson Objective: To divide any fractions using the common denominator methods.
	Language Goals: Use the terms dividend, divisor, and quotient to explain a winning game strategy.
	Do Now: Develop Estimation Skills Make an Estimate Students estimate to choose the lesser quotient in each pair of
	expressions. Ask students to share their solutions and explain their reasoning. Mathematical Practice: Reason Abstractly
	Teach: (Set up) Purpose:
	Teach Less Is More (Level 3) Step 1: Roll the number cube three times. Step 2: Create two fractions less than 1.
	Step 3: Divide the fractions. Record your quotient and your partner's quotient. Step 4: Write an inequality to compare your quotient with your partner's
	quotient. Goal: To create the lesser quotient and have the most points after five rounds.
	mSpace pages 86-89.
Checking for Understanding	Summarize and Assess: Review Game Strategy Mathematical Practice: Use Repeated Reasoning
	Answer this question: If you rolled these numbers, what fractions would you create? 2, 4, 5 Can you arrange the numbers another way and still get the same
	quotient? If so, how? I would arrange the number like thisand get the same quotient. Exit Ticket: mSpace p. 89
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 86-89.
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software:
	Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking. Elicit Student Thinking
	Modify Tasks
	Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Topic 3 (Lesson 5):	
Teach Teaching Options	Lesson Objective: To identify patterns with whole numbers and fractions and describe with more than one rule.
	Language Goals: Use the terms dividend, divisor, quotient, and reciprocal

	to discuss fractions. Use patterns to explain the relationship between multiplying and dividing.
	Do Now: Evaluate Solutions Who's Right? Students analyze a pattern and find the missing number to decide which student has the correct solution. Ask students to share their solutions and explain their reasoning.
	Mathematical Practice: Construct Viable Arguments
	Teach: Model Identifying Patterns: Teach the steps to identify and apply multiplication and division rules to complete a function table. Step 1: Find the rule using multiplication. Step 2: Represent the rule with division. Step 3: Apply the rule to complete the table. Mspace p. 90-91 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Review Identifying Patterns With Fractions Exit Ticket: <i>mSpace</i> p. 91
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 90-91.
Assigning Homework	Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking Modify Tasks
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
Block 6 Performance Task	
Teach	Lesson Objective: Organize Space Experiments-Students multiply fractions to calculate areas.
Teaching Options	
	reacn: Replay Anchor Video – "Destination: Mars."
	Introduce Performance Task.
	Complete the Performance task Mspace p. 92-93
	Students will be evaluated based on Performance Task Rubric Explore Apply, and Applyze
Practice and Apply	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole group guided instruction. Pair Share
0 0	Group 2: Student Software:
	Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Liicit Student Thinking Modify Tasks
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and

	differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Potations, access digital lessons
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
mSkills Curriculum Based	Review:
Assessment 6	To prepare students for mSkills:
	Download the Block 6 mSkills Strategy Lesson, Student Pages,
	and Annotated Student Pages to give students targeted practice with
	assessment item types based on current Block content.
	You may also teach the mSkills Demo Lesson to give students a general
	overview of assessment item types based on prerequisite content.
	Evaluate
	To administer mSkills
	Go to Class Settings and assign the mSkills assessment to students
	Have students log in to the student software
	Administer:
	Reference Guide.
	The first 20 items will be digitally graded and available in Class
	Analytics Zone Progress.
	Enter scores to the constructed-response items in the
	SDP using the Scoring Rubric.
	Have students complete the Mindset Strategy in their mSpaces to
	reflect on their performance in the Block.

PART IV: EVIDENCE OF LEARNING IDENTIFY THE METHODS BY WHICH STUDENTS WILL DEMONSTRATE THEIR UNDERSTANDING OF CONTENT AND THEIR ABILITY TO APPLY SKILLS. IDENTIFY BLOOM'S LEVELS.



Formative Assessments:

The effectiveness of the instructional program will be based on teacher observations, students doing quality of work together, questioning strategies, self and peer assessment, student record-keeping, quizzes, tests, homework, class discussion, individual conferences, performance tasks, diagnostic tests, homework, and projects

Accommodations/Modifications:

Use manipulatives to build patterns or represent symbols. Provide Graphic organizers to use in solving problems. Provide guided notes/handouts. Break problems into smaller pieces. Have students keep and turn in a notebook. Review needed skills prior to the lesson. Provide checklists for solving problems.

Summative Assessments:

Periodic chapter tests, state assessments, PSATs, End of Course tests, and SATs

Accommodations/Modifications:

Provide checklists for solving problems. Provide students with a resource page that has multiplication charts, fractions pieces. Break problems and test sections into smaller pieces

Performance Assessments:

Projects, display of student work, and electronic portfolios

Accommodations/Modifications:

Allow students extra time to complete projects. Provide students with an example of project for reference. Make a clear rubric for students to understand exactly what is expected.

PART I: UNIT RATIONALE

Course/Unit Title:	Unit Summary:
Math Foundations I – Math	In this unit students develop an understanding of place value.
180	
Grade Level(s):	
Essential Question(s):	Enduring Understanding(s):
How do you use fractions	Students will be able to:
and place value to represent	Name fractions using decimal notation.
decimals?	Name fractions as decimals.
	Develop reasoning with decimals.
	Express decimals in more than one way.
	Sort fractions and decimals.
	Use place value to rename decimals.
	Identify patterns in place value.
	Divide to name fractions as decimals.
	Develop strategies with decimals.
	Solve problems with decimals.
	Locate decimals on a number line.
	Compare decimals.
	Name decimals between decimals.
	Use reasoning with decimals.

WHY ARE STUDENTS LEARNING THIS CONTENT AND THESE SKILLS?

PART II: INSTRUCTIONAL STRATEGIES AND RESOURCES DESCRIBE THE LEARNING TARGETS.

After each target, identify the NJSLS or Common Core Standards that are applicable

Learning Target	NJSLS or CCS CCSS:
Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates in 0s or eventually repeats.	7.NS.A.2d
Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers, then $-(p/q) = (-p)/q = p/(-q)$. Interpret quotients of rational numbers by describing real-world contexts.	7.NS.A.2b
Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.	8.NS.A.1
Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.	6.NS.C.5
Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., π^2). For example, by truncating the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.	8.NS.A.2
Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.	5.NBT.A.1

Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., π^2). For example, by truncating the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.

Inter-Disciplinary Connections:

Real-World problem solving examples: To solve problems related to artists, inventors and entrepreneurs. To solve problems in the field of culinary arts, science, space and medical.

Students will engage with the following text:

Math 180, Scholastic, Inc. 2014

Students will write:

Writing/Open Ended questions: Students analyze function tables to identify and express multiplication patterns with whole numbers. Students use bar models to represent and solve problems by multiplying 1-digit and 2 – digit factors.

PART III: TRANSFER OF KNOWLEDGE AND SKILLS

DESCRIBE THE LEARNING EXPERIENCE.

How will students uncover content and build skills.

Students will uncover and build skills through various classroom activities. Investigating number sense activities, modeling examples, using real-life application, using note-taking strategies, and using SMARTBoard technologies will all be explored. Other learning experiences could include alternative lesson openers, math and history applications, problem solving workshops, interdisciplinary applications and extra examples of problem solving.

Suggested warm-up activities, instructional strategies/activities, and assignments:

Block 7: Name Fractions Using Decimal Notation.	Essential Question: How can students use fractions and place value to represent decimals, and locate decimals on a number line?
Topic 1 (Lesson 1):	
	Do Nowl
FOCUS AND MOTIVATE	Play the Anchor Video, "Against the Clock." Read the preview question aloud: If you wanted to become an Olympic athlete, how would you prepare? Ask students to share their responses with the class.
Teach	Lesson Objective: To express fractions with a denominator of 10 or 100
Teaching Options	Language Goals: Use the terms decimals, hundredths, and tenths in complete sentences. Express decimals verbally using and to separate the whole-number part from the decimal part.
	Teach: Play the Instructional Video:
	Model Naming Tenths and Hundredths: Teach the steps to name numbers as a fraction, a decimal, and in word form.
	Step 1: Identify tentrs. Step 2: Identify hundredths. Step 3: Name tenths and hundredths.
	Grade-Level Content Connections: The Number System Mspace p. 98-99 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Review Naming Tenths and Hundredths as Decimals Exit Ticket: <i>mSpace</i> p. 99
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 98-99.
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking Modify Tasks
	Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson based on software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
Topic 1 (Lesson 2):	
Teach Teaching Options	Lesson Objective: To use equivalence to express fractions less than 1 as decimals.
	Language Goals: Use the terms hundredths and tenths

	to name fractions and decimal numbers. Identify and describe the importance of the decimal point in a decimal number.
	Do Now: Develop Flexible Thinking
	Students analyze the given characteristics of an unknown number and
	solve the riddle by identifying the decimal. Ask students to share their
	responses and ask about the first step they took to solve the problem. Mathematical Practice: Persevere and Solve Problems
	Teach:
	Play the Instructional Video:
	Model Naming Fractions as Decimals:
	Teach the steps to rename
	6/25 as a decimal.
	Step 2: Rename the fraction.
	Step 3: Rename the fraction as a decimal.
	Grade-Level Content Connections: The Number System <i>Mspace</i> p. 100-101 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
6 6	Review Naming Fractions as Decimals
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 100-101.
Assigning Homework	Computer Software:
Assigning nonework	group guided instruction, Pair Share.
	Group 2: Student Software:
	Explore Zone Learn Zone/Fast Track: Think, Trv, Practice, Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking Modify Tasks
	Using Data to Differentiate Checkpoint #1:
	Use Groupinator to analyze student data and recommend groups and
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson based on software data. Stretch Lesson based on software data
Accommodations/Modifications:	Students can work on additional software as a supplement to class
	instruction.
Topic 1 (Lesson 3):	
Teach	Lesson Objective: To use equivalence to express fractions less than 1 as
Teaching Options	decimals.
	Language Goals: Lise the terms hundredths and tenths to name
	fractions and decimals.
	Do Now:
	Develop Number Sense Tell Me All You Can –Students reason quantitatively to provide various
	information about the decimal number 0.43. Ask students to share their
	solutions.
	naurematical Flacule, Reason Abstractly
	Teach: (Set-Up)
	To practice representing numbers on a decimal grid.

Checking for Understanding	Teach Over & Out (Level 1) Step 1: Roll the decahedron and record that number. Step 2: Decide whether the number rolled should be a decimal in the tenths or the hundredths place. Step 3: Shade the decimal in the grid. Step 4: Take turns with your partner. Goal: To fill the decimal grid in 10 turns. Mspace p. 102-105 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Summarize and Assess: Review Expressing Decimals in More Than One Way Exit Ticket: mSpace p. 105
Dractice and Annly	Solve problems in pairs on <i>mSpace</i> pages 102-105
Assigning Homework	Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking Modify Tasks Using Data to Differentiate Checkpoint #1: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class
Topic 1 (Lesson 4):	instruction.
Teach	Lesson Objective: To identify and express decimals in equivalent forms.
Teach Teaching Options	Lesson Objective: To identify and express decimals in equivalent forms. Language Goals: Use the decimal and fractional terms hundredths, mixed number, and tenths to explain why different forms of a decimal are equivalent. Do Now: Develop Reasoning Skills Which Does Not Belong? Students analyze a group of numbers to determine which does not belong. Ask students to identify the number and explain their reasoning. Mathematical Practice: Make Use of Structure Teach: Play the Instructional Video: Express Decimals in More Than One Way Model Naming Amounts Greater Than One: Teach the steps to name one and nine tenths as a mixed number, decimal, and fraction. Step 1: Name the mixed number. Step 2: Name the decimal. Step 3: Name the fraction. Mathematical Practice: Model With Mathematics Grade-Level Content Connections: The Number System Mspace p. 106-107 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	SummanZe dhu Assess. Review Game Strategy
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	Mathematical Department I and Department
	Mathematical Practice: Use Repeated Reasoning Answer this question: You rolled a 2, 4, and 6. Which numbers would you keep? Explain your reasoning. I would keep the numbers and because
	Exit Ticket: mSpace p. 107
Practice and Apply	Play game in pairs on <i>mSpace</i> pages 106-10/
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Topic 1 (Lesson 5):	
Teach Teaching Options	Lesson Objective: To use equivalence and comparison to classify fractions and decimals and solve problems.
	Language Goals: Understand and use the terms decimal, equivalent, and fraction to discuss sorting fractions and decimals.
	Do Now: Analyze Problems Missing Numbers Students analyze a list of numbers and make sense of the structure of an equation to solve a problem. Ask students to share their solutions and
	explain their reasoning. Mathematical Practice: Persevere and Solve Problems Teach:
	Model Sorting Fractions and Decimals: Teach the steps to sort 0.13, 3/10, 0.75, 0.9, 1/10, 1/5, 0.4, and 3/4 with a Venn diagram. Step 1: Analyze the problem.
	 Step 2: Rename the numbers as hundredths. Step 3: Place the numbers in the intersection. Step 4: Complete the Venn diagram. Mspace p. 108-109 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Review Classifying Fractions and Decimals Exit Ticket: <i>mSpace</i> p. 109
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 108-109.
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking Modify Tasks Using Data to Differentiate Checknoint #1
	Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson based on software data.
	Stretch Lesson based on software data.
Accommodations/Modifications:	instruction.
Topic 2 (Lesson 1):	

T I.	Losson Objective: To identify place value in desimals
Teach	Lesson objective. To identify place value in decimals.
Teaching Options	Language Goals:
	Use ten-thousandth and thousandth to read and write decimal numbers
	Explain how to write and name the expanded form of a decimal.
	P
	Do Now:
	Create Structure
	Build It -Students apply understanding of place value to find the unknown
	number that meets the stated conditions.
	Mathematical Practice:
	Make Use of Structure
	leach:
	Play the Instructional Video:
	Use Place value to Rename Decimals.
	Model Renaming Decimals with Place value:
	reach the steps to rename 765.4321 in expanded form and in word form
	by identifying place value.
	Step 1: Identify place value patterns
	Step 2. Identify place to ten-thousandths
	Step 3. Identity places to ten-thousanduris.
	Menace n. 112-113 Guided Practice: Demonstrate Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
checking for onderstanding	Review Decimal Place Value
	Exit Ticket: mSpace p. 113
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 112-113.
	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction, Pair Share.
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #2:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class
	Instruction.
Topic 2 (Lesson 2)	
Teach	Lesson Objective: To multiply and divide decimals by 10, 100, and 1000.
Teaching Options	Language Goals:
	Describe and explain the pattern in the multiplication and division of
	decimals by 10 and 100.
	Do Now:
	Develop Flexible Thinking
	Brain Teaser - Students analyze the given characteristics of an unknown
	number and solve the riddle by identifying the greatest possible decimal.
	Ask students to share their responses and explain their strategy for
	solving the riddle.
	Mathematical Practice: Make Use of Structure

	Teach:
	Play the Instructional Video:
	Identify Patterns in Place Value
	Model Pules for Multiplying and Dividing by 10:
	Toget the stope to identify the rule for multiplying and dividing numbers
	by 10.
	Step 1: Multiply by 10.
	Step 2: Divide by 10.
	Step 3: Find the rule.
	Grade-Level Content Connections
	The Number System
	Manaca n. 114 115 Cuidad Dractica: Domonstrata, Solva Tagothor
	Proctice Colve problems in pairs
Checking for Understanding	Summarize and Assess:
•	Review the Patterns and Rules
	Exit Ticket: mSpace p. 115
Practice and Annly	Solve problems in pairs on <i>mSpace</i> pages 114-115.
r ractice and Appry	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction. Pair Share.
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track, Think Try Practice Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade, Students are responsible to complete 20 minutes in the
	Challenge: Despend to common patterns of Thinking
Assess and Reteach	
Differentiating Instruction	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #2:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings
	Plan Instruction: Based on Rotations, access digital lessons
	Poost Losson related to coffware data
	Chustele Lesson related to software data
	Stretch Lesson related to software data.
Accommodations/Modifications	Students can work on additional software as a supplement to class
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Topic 2 (Lesson 3):	instruction.
Topic 2 (Lesson 3):	Lesson Objective: To express fractions as decimals using division.
Topic 2 (Lesson 3): Teach	Lesson Objective: To express fractions as decimals using division.
Topic 2 (Lesson 3): Teach Teaching Options	Instruction.
Topic 2 (Lesson 3): Teach Teaching Options	Instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number.
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Topic 2 (Lesson 3): Teach Teaching Options	Instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their
Topic 2 (Lesson 3): Teach Teaching Options	Instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct
Topic 2 (Lesson 3): Teach Teaching Options	Instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct.
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Topic 2 (Lesson 3): Teach Teaching Options	Instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Diru the Instructional Video:
Topic 2 (Lesson 3): Teach Teaching Options	instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Play the Instructional Video: Divide to Neme Emotions and Pacingale
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Topic 2 (Lesson 3): Teach Teaching Options	instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Play the Instructional Video: Divide to Name Fractions as Decimals. Model Naming Fractions as Decimals:
Topic 2 (Lesson 3): Teach Teaching Options	instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Play the Instructional Video: Divide to Name Fractions as Decimals. Model Naming Fractions as Decimals: Teach the steps to rename
Topic 2 (Lesson 3): Teach Teaching Options	instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Play the Instructional Video: Divide to Name Fractions as Decimals. Model Naming Fractions as Decimals: Teach the steps to rename 3/8 as a decimal.
Topic 2 (Lesson 3): Teach Teaching Options	instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Play the Instructional Video: Divide to Name Fractions as Decimals. Model Naming Fractions as Decimals: Teach the steps to rename 3/8 as a decimal. Step 1: Rename the fraction.
Topic 2 (Lesson 3): Teach Teaching Options	instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Play the Instructional Video: Divide to Name Fractions as Decimals. Model Naming Fractions as Decimals: Teach the steps to rename 3/8 as a decimal. Step 1: Rename the fraction. Step 2: Multiply the dividend.
Topic 2 (Lesson 3): Teach Teaching Options	instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Play the Instructional Video: Divide to Name Fractions as Decimals. Model Naming Fractions as Decimals: Teach the steps to rename 3/8 as a decimal. Step 1: Rename the fraction. Step 2: Multiply the dividend. Step 3: Divide with partial quotients
Topic 2 (Lesson 3): Teach Teaching Options	instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Play the Instructional Video: Divide to Name Fractions as Decimals. Model Naming Fractions as Decimals. Model Naming Fractions as Decimals: Teach the steps to rename 3/8 as a decimal. Step 1: Rename the fraction. Step 2: Multiply the dividend. Step 3: Divide with partial quotients. Step 4: Divide the quotient
Topic 2 (Lesson 3): Teach Teaching Options	instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Play the Instructional Video: Divide to Name Fractions as Decimals. Model Naming Fractions as Decimals: Teach the steps to rename 3/8 as a decimal. Step 1: Rename the fraction. Step 2: Multiply the dividend. Step 3: Divide with partial quotients. Step 4: Divide the quotient. Menzero p. 116 117 Cuided Practicor. Demonstrate Solve Teachter
Topic 2 (Lesson 3): Teach Teaching Options	instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Play the Instructional Video: Divide to Name Fractions as Decimals. Model Naming Fractions as Decimals. Model Naming Fractions as Decimals. Teach the steps to rename 3/8 as a decimal. Step 1: Rename the fraction. Step 2: Multiply the dividend. Step 3: Divide with partial quotients. Step 4: Divide the quotient. Mspace p. 116-117 Guided Practice: Demonstrate, Solve Together Practice: Solve Together
Topic 2 (Lesson 3): Teach Teaching Options	instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Play the Instructional Video: Divide to Name Fractions as Decimals. Model Naming Fractions as Decimals. Model Naming Fractions as Decimals: Teach the steps to rename 3/8 as a decimal. Step 1: Rename the fraction. Step 2: Multiply the dividend. Step 3: Divide with partial quotients. Step 4: Divide the quotient. Mspace p. 116-117 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Topic 2 (Lesson 3): Teach Teaching Options Checking for Understanding	instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Play the Instructional Video: Divide to Name Fractions as Decimals. Model Naming Fractions as Decimals: Teach the steps to rename 3/8 as a decimal. Step 1: Rename the fraction. Step 2: Multiply the dividend. Step 3: Divide with partial quotients. Step 4: Divide the quotient. Mspace p. 116-117 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Summarize and Assess: Daview Dividing to Name Fractione as Decimals
Topic 2 (Lesson 3): Teach Teaching Options Checking for Understanding	instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Play the Instructional Video: Divide to Name Fractions as Decimals. Model Naming Fractions as Decimals: Teach the steps to rename 3/8 as a decimal. Step 1: Rename the fraction. Step 2: Multiply the dividend. Step 3: Divide the quotient. Mspace p. 116-117 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Summarize and Assess: Review Dividing to Name Fractions as Decimals Firit Tirkett mCrace p. 117
Topic 2 (Lesson 3): Teach Teaching Options Checking for Understanding	instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Play the Instructional Video: Divide to Name Fractions as Decimals. Model Naming Fractions as Decimals: Teach the steps to rename 3/8 as a decimal. Step 1: Rename the fraction. Step 2: Multiply the dividend. Step 3: Divide with partial quotients. Step 4: Divide the quotient. Mspace p. 116-117 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Summarize and Assess: Review Dividing to Name Fractions as Decimals Exit Ticket: mSpace p. 117
Topic 2 (Lesson 3): Teach Teaching Options Checking for Understanding Practice and Apply	instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Play the Instructional Video: Divide to Name Fractions as Decimals. Model Naming Fractions as Decimals. Teach the steps to rename 3/8 as a decimal. Step 1: Rename the fraction. Step 2: Multiply the dividend. Step 3: Divide with partial quotients. Step 4: Divide the quotient. Mspace p. 116-117 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Summarize and Assess: Review Dividing to Name Fractions as Decimals Exit Ticket: mSpace p. 117 Solve problems in pairs on <i>mSpace</i> pages 116-117.
Topic 2 (Lesson 3): Teach Teaching Options Checking for Understanding Practice and Apply Assigning Homework	instruction. Lesson Objective: To express fractions as decimals using division. Language Goals: Explain how to convert a fraction to a decimal number. Do Now: Who's Right? Students review the answers of Aiden, Paula, and Maxwell and decide which named the correct decimal for 1/4. Ask students to share their responses and explain why it is correct. Mathematical Practice: Construct Viable Arguments Teach: (Play the Instructional Video: Divide to Name Fractions as Decimals. Model Naming Fractions as Decimals. Model Naming Fractions as Decimals: Teach the steps to rename 3/8 as a decimal. Step 1: Rename the fraction. Step 2: Multiply the dividend. Step 3: Divide with partial quotients. Step 4: Divide the quotient. Mspace p. 116-117 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Summarize and Assess: Review Dividing to Name Fractions as Decimals Exit Ticket: mSpace p. 117 Solve problems in pairs on <i>mSpace</i> pages 116-117. Computer Software:

	group guided instruction. Pair Share.
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #2:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plain Instruction. Dased on Rolations, access digital lessons.
	Stretch Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class
Accommodations, mounications.	instruction.
Tonic 2 (Lesson 4):	
	Lanza Obiativa Tanana fastina an dainala uria divisian
Teach	Lesson Objective: To express fractions as decimals using division.
Teaching Options	Language Goals:
	Use the terms hundredths and tenths when explaining game moves and
	strategies.
	5
	Do Now:
	Develop Reasoning Skills
	Which Does Not Belong?
	Students analyze a group of numbers to determine which does not
	Mathematical Practice: Peason Abstractly
	Teach: (Set-Up)
	Purpose:
	To practice representing numbers on a decimal grid.
	Teach Over & Out (Level 2)
	Step 1: Roll the decahedron and record that number.
	step 2: Decide whether the number rolled should be a decimal the tenths
	Step 3' Shade the decimal in the grid
	Step 4: Take turns with your partner.
	Goal: To fill in the decimal grid in five turns.
	Mspace p. 118-121 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
	Review Game Strategy Exit Ticket: <i>mSpace</i> p 118
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 118-121.
	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction, Pair Share.
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
Assess and Datasat	Challenge: Respond to common patterns of Thinking
Assess and Reteach	Flicit Student Thinking
Differentiating Instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #2:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.

	Stretch Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
Topic 2 (Lesson 5):	
Teach Teaching Options	Lesson Objective: To compare decimal place value to solve problems. To justify solutions to decimal comparison problems using models and reasoning.
	Language Goals: Use the terms greater than, inequality, and less than to discuss contextualized problems.
	Do Now: Develop Number Sense Tell Me All That You Can Students apply their knowledge of decimals and ways to represent decimals to describe qualities of the number 0.29. Ask students to share their responses.
	Mathematical Practice: Reason Abstractly Teach: Model Comparing Decimals
	Teach the steps to order 8.4, 7.04, 7.46, 8.41, and 7.3 by renaming. Step 1: Analyze the problem. Step 2: Rename the decimals. Step 3: Use place value to order the decimals.
	Step 4: Check your work. Mathematical Practice: Use Repeated Reasoning Mspace p. 122-123 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Review Solving Problems With Decimals Exit Ticket: mSpace p.123
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 122-123.
Assigning Homework	Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Loom Zone (Eact Track: Think, Try, Practice, Mactor
	Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking Modify Tasks
	Using Data to Differentiate Checkpoint #2: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data.
Accommodations/Modifications:	Stretch Lesson related to software data. Students can work on additional software as a supplement to class
	instruction.
Topic 3 (Lesson 1):	
Teach Teaching Options	Lesson Objective: To locate decimals on a number line. Language Goals: Use the terms hundredths and tenths to name decimals. Explain how to locate a decimal on a number line.

	Do Now: Develop Number Sense Tell Me All That You Can Students apply their knowledge of decimals, fractions, and mixed numbers to express a quantity. Ask students to share what they know about 1.65 and why it's useful to express numbers in multiple ways. Mathematical Practice: Attend to Precision Teach: Play the Instructional Video: Locate Decimals on a Number Line Model Locating Decimals on a Number Line: Teach the steps to locate decimals on a number line. Step 1: Label the tenths between 0 and 1. Step 2: Name the tenths on a number line Grade-Level Content Connections: The Number System Mspace p. 126-127 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Review Locating Decimals on a Number Line Frit Ticket: mSpace p. 127
Practice and Apply Assigning Homework	Solve problems in pairs on <i>mSpace</i> pages 126-127. Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach Differentiating Instruction	Challenge: Respond to common patterns of Thinking. Elicit Student Thinking Modify Tasks Using Data to Differentiate Checkpoint #3: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Topic 3 (Lesson 2):	
Teach Teaching Options	Lesson Objective: To compare and order decimals. Language Goals: Compare decimals using the words greater than and less than. Do Now: Develop Flexible Thinking Brain Teaser Students analyze the given characteristics of an unknown number and solve the riddle by identifying the decimal. Ask students to share their responses and ask what part of the riddle was most helpful. Mathematical Practice: Make Use of Structure Teach: Play the Instructional Video: Compare Decimals - Model Comparing Decimals: Teach the steps to compare the decimals 0.107 and 0.17. Step 1: Rename decimals as fractions. Step 2: Compare using common denominators. Step 3: Compare by writing digits to the same place value. Grade-Level Content Connections: The Number System Mspace p. 128-129 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs

Checking for Understanding	Summarize and Assess:
	Review Comparing Decimals
Duranting and Analy	EXIL TICKEL: ITISPACE p. 129 Solve problems in pairs on <i>mSnace</i> pages 128-129
Practice and Apply	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction, Pair Share.
	Group 2: Student Software:
	EXPIORE ZONE Learn Zone/Eact Track: Think Try Practice Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
	Modify Tasks
	Using Data to Differentiate Checkpoint #5.
	differentiated instruction lessons for each rotation
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
Tonic 3 (Lesson 2):	
- ·	
Teach	Lesson Objective: To apply understanding of place value and equivalence
Teaching Options	to name decimais between decimais.
0	Language Goals:
	Use appropriate language to name and compare decimals.
	Explain why decimals exist between any pair of decimals.
	Do Now:
	Analyze Problems
	Missing Numbers - Students analyze the structure of two number
	sequences in order to determine the missing numbers. Ask students to
	Mathematical Practice: Make Use of Structure
	Teach:
	Play the Instructional Video:
	Name Decimals Between Decimals.
	Model Naming Decimals:
	Leach the steps to locate 21.116 on a number line.
	Step 1. Name decimals between tenths
	Step 2: Name decimals between hundredths
	Step 4: Locate the decimal.
	Grade-Level Content Connections: The Number System
	Mspace p. 130-131 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Review Naming Decimals Retween Decimals
	Exit Ticket: mSnace n 131
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 130-131.
	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction, Pair Share.
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
A	Challenge: Deceand to common patterns of Thinking
Assess and Reteach	Chanenge, Respond to common patterns of Minking.
Differentiating Instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and

	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Boost Lesson related to software data
	Stretch Lesson related to software data.
Topic 3 (Lesson 4):	
Teach	Lesson Objective: To apply understanding of place value and equivalence
Teaching Ontions	to name decimals between decimals.
reaching Options	
	Language Goals:
	Use the terms hundredths and tenths to explain game strategies.
	Do Now:
	Evaluate Solutions
	Who's Right?
	Students apply their understanding of place value and equivalence to
	name decimals between decimals. Ask students to share the solution and
	explain why it's useful to rename the decimals as hundredths.
	Mathematical Practice: Make Use of Structure
	Teach: (Set un)
	Purpose:
	To practice adding decimals using a decimal grid.
	Teach Over & Out (Level 3)
	Step 1: Roll the decahedron and record that number.
	Step 2: Decide whether the number rolled should be a digit in the ones,
	tenths, or hundredths place.
	Step 3: Shade the decimal in the grid.
	the decimal you shaded
	Goal: To shade two decimal grids in five turns.
	mSpace pages 132-135.
Checking for Understanding	Summarize and Assess:
	Review Game Strategy
	Mathematical Practice: Use Repeated Reasoning
	rolled in the ones place?
	It is a good idea to put the number you rolled in the ones place
	if
	Exit Ticket: mSpace p. 135
Practice and Apply	Solve problems in pairs on <i>mSpace</i> pages 132-135.
Assigning Homework	On a daily basis students are split into two groups: Group 1: whole
	group guided instruction, Pair Share.
	Group 2: Student Software:
	Explore Zone
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking Medify Taska
U U	Ising Data to Differentiate Checknoint #3:
	Use Groupinator to analyze student data and recommend aroups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
Topic 3 (Lesson 5):	
Teach	Lesson Objective: To solve problems by writing and evaluating equations
Teaching Orthogra	with decimals.
leaching Options	
	Language Goals:

	Use the terms decimal, equivalent, tenths, and hundredths to discuss and explain decimal problems with equivalence. Do Now: Identify Numerical Patterns Find the Pattern - Students view a diagram and analyze the relationships among numbers to identify patterns. Ask students to share solutions and explain how to figure out the rule. Mathematical Practice: Model With Mathematics Teach: Model a Pan Balance Problem: Teach the steps to find the value of k on a pan balance. Step 1: Analyze the problem. Step 2: Write an equation for the problem. Step 3: Solve the problem. Step 4: Check your work. Mathematical Practice: Reason Abstractly Mspace p. 136-137 Guided Practice: Demonstrate, Solve Together
Checking for Understanding	Practice: Solve problems in pairs Summarize and Assess: Review Solving Decimal Problems With Equivalence
	Exit licket: <i>mSpace</i> p. 137
Practice and Apply Assigning Homework	Solve problems in pairs on <i>mSpace</i> pages 136-137. Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
	Modify Tasks Using Data to Differentiate Checkpoint #3: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Block 7 Performance Task	
Teach	Lesson Objective: Train Olympic Athletes-Students compare decimals to
Teaching Options	hundredths, and then create and evaluate a double line graph. Teach: Replay Anchor Video – "Against the Clock." Introduce Performance Task.
	Complete the Performance task Mspace p. 138-139 Evaluate: Students will be evaluated based on Performance Task Rubric Explore, Apply, and Analyze
Practice and Apply	Computer Software:
Assigning Homework	on a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
Assess and Poteach	Challenge: Respond to common patterns of Thinking
Assess dilu Releduli	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #3: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation.

mSkills Curriculum Based Assessment 7	Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data. Review: To prepare students for mSkills: Download the Block 7 mSkills Strategy Lesson, Student Pages, and Annotated Student Pages to give students targeted practice with assessment item types based on current Block content. You may also teach the mSkills Demo Lesson to give students a general
	overview of assessment item types based on prerequisite content. Evaluate: To administer mSkills: Go to Class Settings and assign the mSkills assessment to students. Have students log in to the student software. Allow students to review the Problem-Solving Routine.
	Administer: Reference Guide. The first 20 items will be digitally graded and available in Class Analytics Zone Progress. Enter scores to the constructed-response items in the SDP using the Scoring Rubric. Have students complete the Mindset Strategy in their mSpaces to reflect on their performance in the Block.

PART IV: EVIDENCE OF LEARNING IDENTIFY THE METHODS BY WHICH STUDENTS WILL DEMONSTRATE THEIR UNDERSTANDING OF CONTENT AND THEIR ABILITY TO APPLY SKILLS. IDENTIFY BLOOM'S LEVELS.

Creating Evaluating Analyzing Applying Understanding Remembering

Formative Assessments:

The effectiveness of the instructional program will be based on teacher observations, students doing quality of work together, questioning strategies, self and peer assessment, student record-keeping, quizzes, tests, homework, class discussion, individual conferences, performance tasks, diagnostic tests, homework, and projects

Accommodations/Modifications:

Use manipulatives to build patterns or represent symbols. Provide Graphic organizers to use in solving problems. Provide guided notes/handouts. Break problems into smaller pieces. Have students keep and turn in a notebook. Review needed skills prior to the lesson. Provide checklists for solving problems.

Summative Assessments:

Periodic chapter tests, state assessments, PSATs, End of Course tests, and SATs

Accommodations/Modifications:

Provide checklists for solving problems. Provide students with a resource page that has multiplication charts, fractions pieces. Break problems and test sections into smaller pieces

Performance Assessments:

Projects, display of student work, and electronic portfolios

Accommodations/Modifications:

Allow students extra time to complete projects. Provide students with an example of project for reference. Make a clear rubric for students to understand exactly what is expected.

PART I: UNIT RATIONALE

Unit Summary:
n this unit students develop an understanding of decimal operations.
Enduring Understanding(s):
Students will be able to:
Apply place value to add decimals.
Add decimals.
Use models to subtract decimals.
Develop number sense with decimals.
Solve multi-step problems with decimals.
Multiply decimals by whole numbers.
Develop decimal estimation strategies.
Multiply decimals less than 1.
Multiply decimals greater than 1.
Identify a rule with decimals.
Use models to divide decimals.
Use patterns to divide decimal.
Divide decimals.
Solve equal groups problems with decimals.
E

WHY ARE STUDENTS LEARNING THIS CONTENT AND THESE SKILLS?

PART II: INSTRUCTIONAL STRATEGIES AND RESOURCES DESCRIBE THE LEARNING TARGETS.

After each target, identify the NJSLS or Common Core Standards that are applicable

Learning Target	NJSLS or CCS CCSS:
Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates in 0s or eventually repeats.	7.NS.A.2d
Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers, then $-(p/q) = (-p)/q = p/(-q)$. Interpret quotients of rational numbers by describing real-world contexts.	7.NS.A.2b
Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.	8.NS.A.1
Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.	6.NS.C.5
Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., π^2). For example, by truncating the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.	8.NS.A.2
Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.	5.NBT.A.1

Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., π^2). For example, by truncating the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.

Inter-Disciplinary Connections:

Real-World problem solving examples: They solve problems related to careers in business and management.

Students will engage with the following text:

Math 180, Scholastic, Inc. 2014

Students will write:

Writing/Open Ended questions: Students analyze function tables to identify and express multiplication patterns with whole numbers. Students use bar models to represent and solve problems by multiplying 1-digit and 2 – digit factors.

PART III: TRANSFER OF KNOWLEDGE AND SKILLS

DESCRIBE THE LEARNING EXPERIENCE.

How will students uncover content and build skills.

Students will uncover and build skills through various classroom activities. Investigating number sense activities, modeling examples, using reallife application, using note-taking strategies, and using SMARTBoard technologies will all be explored. Other learning experiences could include alternative lesson openers, math and history applications, problem solving workshops, interdisciplinary applications and extra examples of problem solving.

Suggested warm-up activities, instructional strategies/activities, and assignments:

Block 8: Fraction and Decimal Relationships	Essential Question: How can students apply their knowledge of place value and fractions to calculate with decimals.
Topic 1 (Lesson 1):	

	Do Now!
FOCOS AND MOTIVATE	Introduce "You're the Boss"
	Play the Anchor Video, "Dollars and Sense."
	Read the preview question aloud: What business would you like to start in
	your community? Ask students to share their responses with the class.
	Mathematical Practice: Make Use of Structure
Teach	Lesson Objective: To apply meaning of place value and addition and
Teaching Options	subtraction to decimals. To estimate sums of decimals.
5 - F - F - F - F - F - F - F - F - F -	Language Goals: Name decimals in tenths and hundredths
	Lise the term expanded form to explain the use of place value to add
	decimals.
	Teach:
	Play the Instructional Video:
	Apply Place Value to Add Decimals.
	Model Using Place Value to Add Decimals:
	Teach the steps to add $5.76 + 7.23$ using place value.
	Step 1: Make an estimate.
	Step 2: Write addends in expanded form.
	Step 3: Add using place value.
	Step 4: Add the partial sums.
	Grade-Level Content Connections: Expressions & Equations.
	Mispace p. 145-146 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Charling for Understanding	Summarize and Assess
Checking for Understanding	Review Using Place Value to Add Decimals
	Exit Ticket: mSpace p. 145
Practice and Apply	Solve problems in pairs on mSpace pages 144-145.
	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole group
	guided instruction, Pair Share.
	Group 2: Student Software:
	EXPLORE ZONE
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #1:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Priori Instruction: Based on Rotations, access digital lessons.
	Duusi Lessuli Daseu uli suliwale uala. Stratch Lesson hased on software data
A accuracy dations / Madifications	Students can work on additional software as a supplement to class
Accommodations/wodifications:	instruction
Topic 1 (Lesson 2):	
· · · · · · · · · · · · · · · · · · ·	
Teach	Lesson Objective: To add decimals. To estimate sums and differences of
Teaching Onting	decimals.
leaching Options	
	Language Goals:
	Understand and use the terms addend, partial sum, and sum to describe
	adding decimals.
	Do Now:
	Develop Estimation Skills
	Make an Estimate
	Students use place-value structure to estimate sums and then order them.
	Ask students to share solutions and explain why estimating is useful in

	solving this problem. Mathematical Practice: Make Use of Structure
	Teach: Play the Instructional Video:
	Add Decimals. Model Adding Decimals Vertically: Teach the stars to add 10.12 + 9.22
	Step 1: Make an estimate. Step 2: Add using place value.
	Step 3: Add the partial sums. Step 4: Compare the sum and estimate.
	High-Leverage Practice: Lead a Discussion Grade-Level Content Connections: The Number System
	Mspace p. 146-147 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Review Adding Decimals Exit Ticket: mSpace p. 147
Practice and Apply	Solve problems in pairs on mSpace pages 146-147
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole group
	Group 2: Student Software:
	Learn Zone Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per work for homowork
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking Modify Tasks
	Using Data to Differentiate Checkpoint #1:
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson based on software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
Topic 1 (Lesson 3):	
Teach Teaching Options	Lesson Objective: To use models to subtract decimals. To estimate differences of decimals.
	Language Goals: Use the terms difference and distance to solve subtraction problems using an open number line.
	Do Now:
	Evaluate Solutions Who's Right? Students review the work of Kerry and Jing and decide who
	used the open number line correctly to solve a subtraction problem. Ask students to share the solution and explain their reasoning. Mathematical Practice: Use Tools Strategically
	Teach: Play the Instructional Video:
	Use Models to Subtract Decimals. Model Subtracting Decimals: Teach the steps to subtract 3.84 – 1.22 using
	an open number line.
	High-Leverage Practice: Respond to Common Patterns of Thinking
	Step 2: Subtract with an open number line. Step 3: Add the jumps.
	Step 4: Compare the difference to the estimate. Grade-Level Content Connections: The Number System

	Mspace p. 148-149 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Sulfilliditze dilu Assess. Review Game Strategy
	Exit Ticket: mSpace p. 149
Practice and Apply	Solve problems in pairs on mSpace pages 148-149.
Assigning Homowork	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole group
	Group 2' Student Software
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #1:
	differentiated instruction lessons for each rotation
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class
	Instruction.
Tonic 1 (Losson 4):	
	Lassan Obiativa. Ta usa madala ta subtrast dasimala
Teach	Lesson Objective: To use models to subtract decimals.
Teaching Options	
	Language Goals: Use the terms hundredths and tenths to name decimal
	numbers. Use the terms difference and place value to discuss strategies.
	Do Nour
	Analyze Problems Missing Numbers
	Students use place-value structure to estimate the missing numbers, and
	then order them from least to greatest. Ask students to share solutions
	and explain the strategy they used.
	Mathematical Practice: Make Use of Structure
	Teach: (Set-Un)
	Purpose: To practice subtracting decimals.
	Teach Decimal Dare (Level 1)
	Step 1: Roll the decahedron two times.
	Step 2: Use the two numbers to make a whole number or decimal.
	Step 3: Subtract the number from 50 or from the difference from your last
	round. Step 4: Record the difference and take turns
	Goal: To have a difference closest to zero after six rounds
	Mspace p. 150-153 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
	Summarize and Assocs
Checking for Understanding	Review Game Strategy
	Exit Ticket: mSpace p. 153
Practice and Apply	Play game in pairs on mSpace pages 150-153
Assigning Homework	On a daily basis students are split into two groups: Group 1: whole group
	guided instruction, Pair Share.
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Brain Arcade: Students are responsible to complete 20 minutes in the
	During Augusta and an analysis of the second state of the second s

Topic 1 (Lesson 5):	
Teach Teaching Options	Lesson Objective: To analyze and solve additive problems with decimals using models and equations.
U	Language Goals: Use the terms decimal, equation, estimate, hundredths, part-part-whole problem, and tenths to discuss contextualized problems that involve adding decimals.
	Do Now: Develop Flexible Thinking Brain Teaser -Students analyze the given characteristics of an unknown number and solve the riddle by identifying the decimal. Ask students to share solutions and explain their reasoning. Mathematical Practice: Reason Abstractly Teach: Model a Part-Part-Whole Problem: Teach the steps to solve a part-part-whole problem with decimals. Read It!: Read and identify the problem. Show It!: Represent the problem. Solve It!: Solve the problem. Check It!: Check your work. Mspace p. 154-155 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Review Solving Problems With Decimals Exit Ticket: mSpace p. 155
Practice and Apply Assigning Homework	Solve problems in pairs on mSpace pages 154-155. Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the
Assess and Reteach Differentiating Instruction	Brain Arcade per week for homework. Challenge: Respond to common patterns of Thinking. Elicit Student Thinking Modify Tasks Using Data to Differentiate Checkpoint #1: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson based on software data. Stretch Lesson based on software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
Topic 2 (Lesson 1):	
Teach Teaching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms factors and products when explaining how to find the product of a whole number and decimal.
	Do Now: Develop Flexible Thinking Brain Teaser Students analyze patterns in the multiplication of fractions and whole numbers to identify factors pairs that yield a common product. Ask students to share solutions and explain their reasoning. Mathematical Practice: Make Use of Structure

		Teach:
		Play the Instructional video: Multiply Decimals by Whole Numbers
		Model Multiplying Decimals by Whole Numbers
		Teach the steps to multiply 3×0.24 .
		Step 1: Make an estimate.
		Step 2: Rename the decimal as a fraction.
		Step 3: Find the product.
		Step 4: Compare the product to the estimate.
		Mspace p. 158-159 Guided Practice: Demonstrate, Solve Together
		Practice: Solve problems in pairs
Che	ecking for Understanding	Summanze and Assess: Review Multiplying Decimals by Whole Numbers
		Exit Ticket: mSpace p. 159
Pra	actice and Apply	Solve problems in pairs on mSpace pages 158-159.
Δ	signing Homowork	Computer Software:
ASS	Signing Homework	On a daily basis, students are split into two groups: Group 1: whole group
		Group 2: Student Software:
		Explore Zone
		Learn Zone/Fast Track: Think, Try, Practice, Master
		Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the
		Brain Arcade per week for homework.
Δς	sess and Reteach	Challenge: Respond to common patterns of Thinking.
Dif	forantiating Instruction	Elicit Student Thinking
		Modify Tasks
		Using Data to Differentiate Checkpoint #2:
		Use Groupinator to analyze student data and recommend groups and
		differentiated instruction lessons for each rotation.
		Plan Instruction: Based on Rotations, access digital lessons
		Boost Lesson related to software data.
		Stretch Lesson related to software data.
Acc	commodations/Modifications:	Students can work on additional software as a supplement to class
		instruction.
Тор	pic 2 (Lesson 2):	
Тор	pic 2 (Lesson 2):	
Тор	pic 2 (Lesson 2): ach	Lesson Objective: To multiply whole numbers by decimals less than 1. To
Toj Tea Tea	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals.
Top Tea Tea	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals.
Тор Теа Теа	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers.
Тор Теа Теа	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals.
Тор Теа Теа	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals.
Тор Теа Теа	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now:
Тор Теа Теа	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now: Create Structure Build It -Students build a multiplication equation with a product of 1 using
Toj Tea Tea	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now: Create Structure Build It -Students build a multiplication equation with a product of 1 using four numbers. Ask students to share solutions and explain their reasoning
Toj Tea Tea	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now: Create Structure Build It -Students build a multiplication equation with a product of 1 using four numbers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Make Use of Structure
Тор Теа Теа	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now: Create Structure Build It -Students build a multiplication equation with a product of 1 using four numbers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Make Use of Structure
Тор Теа Теа	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now: Create Structure Build It -Students build a multiplication equation with a product of 1 using four numbers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Make Use of Structure Teach: (Set-up)
Тор Теа Теа	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now: Create Structure Build It -Students build a multiplication equation with a product of 1 using four numbers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Make Use of Structure Teach: (Set-up) Purpose:
Тор Теа Теа	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now: Create Structure Build It -Students build a multiplication equation with a product of 1 using four numbers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Make Use of Structure Teach: (Set-up) Purpose: To practice multiplying whole numbers by decimals.
Тор Теа Теа	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now: Create Structure Build It -Students build a multiplication equation with a product of 1 using four numbers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Make Use of Structure Teach: (Set-up) Purpose: To practice multiplying whole numbers by decimals. Teach Decimal Dare (Level 2)
Тор Теа Теа	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now: Create Structure Build It -Students build a multiplication equation with a product of 1 using four numbers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Make Use of Structure Teach: (Set-up) Purpose: To practice multiplying whole numbers by decimals. Teach Decimal Dare (Level 2) Sten 1: Boll the decahedron two times
Тор Теа Теа	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now: Create Structure Build It -Students build a multiplication equation with a product of 1 using four numbers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Make Use of Structure Teach: (Set-up) Purpose: To practice multiplying whole numbers by decimals. Teach Decimal Dare (Level 2) Step 1: Roll the decahedron two times. Step 2: Use the two numbers to make a whole number.
Тор Теа Теа	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now: Create Structure Build It -Students build a multiplication equation with a product of 1 using four numbers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Make Use of Structure Teach: (Set-up) Purpose: To practice multiplying whole numbers by decimals. Teach Decimal Dare (Level 2) Step 1: Roll the decahedron two times. Step 2: Use the two numbers to make a whole number. Step 3: Multiply the whole number by any decimal.
Тор Теа Теа	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now: Create Structure Build It -Students build a multiplication equation with a product of 1 using four numbers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Make Use of Structure Teach: (Set-up) Purpose: To practice multiplying whole numbers by decimals. Teach Decimal Dare (Level 2) Step 1: Roll the decahedron two times. Step 2: Use the two numbers to make a whole number. Step 3: Multiply the whole number by any decimal. Step 4: Multiply the whole number by another decimal until you get a
Τοι Tea Tea	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now: Create Structure Build It -Students build a multiplication equation with a product of 1 using four numbers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Make Use of Structure Teach: (Set-up) Purpose: To practice multiplying whole numbers by decimals. Teach Decimal Dare (Level 2) Step 1: Roll the decahedron two times. Step 2: Use the two numbers to make a whole number. Step 3: Multiply the whole number by any decimal. Step 4: Multiply the whole number by another decimal until you get a product in the target range.
Τοι Τεα Τεα	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now: Create Structure Build It -Students build a multiplication equation with a product of 1 using four numbers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Make Use of Structure Teach: (Set-up) Purpose: To practice multiplying whole numbers by decimals. Teach Decimal Dare (Level 2) Step 1: Roll the decahedron two times. Step 2: Use the two numbers to make a whole number. Step 3: Multiply the whole number by any decimal. Step 4: Multiply the whole number by another decimal until you get a product in the target range. Goal: To get a product between 10 and 12 in the least amount of tries.
Τοι Τεα Τεα	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now: Create Structure Build It -Students build a multiplication equation with a product of 1 using four numbers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Make Use of Structure Teach: (Set-up) Purpose: To practice multiplying whole numbers by decimals. Teach Decimal Dare (Level 2) Step 1: Roll the decahedron two times. Step 2: Use the two numbers to make a whole number. Step 3: Multiply the whole number by any decimal. Step 4: Multiply the whole number by another decimal until you get a product in the target range. Goal: To get a product between 10 and 12 in the least amount of tries. Mspace p. 160-163 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Top Tea Tea	pic 2 (Lesson 2): ach aching Options	Lesson Objective: To multiply whole numbers by decimals less than 1. To estimate the product of decimals. Language Goals: Use the terms hundredths and tenths to name decimal numbers. Explain strategies for estimating products of decimals. Do Now: Create Structure Build It -Students build a multiplication equation with a product of 1 using four numbers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Make Use of Structure Teach: (Set-up) Purpose: To practice multiplying whole numbers by decimals. Teach Decimal Dare (Level 2) Step 1: Roll the decahedron two times. Step 2: Use the two numbers to make a whole number. Step 3: Multiply the whole number by any decimal. Step 4: Multiply the whole number by another decimal until you get a product in the target range. Goal: To get a product between 10 and 12 in the least amount of tries. Mspace p. 160-163 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
	Exit Ticket: mSpace p. 163	
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Practice and Apply	Solve problems in pairs on mSpace pages 160-163.	
	Computer Software:	
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole group	
	guided instruction, Pair Share.	
	Group 2: Student Software:	
	EXPIDICE ZONE Learn Zone/Eact Track: Think Try Practice Master	
	Success Zone	
	Brain Arcade: Students are responsible to complete 20 minutes in the	
	Brain Arcade per week for homework.	
Assess and Reteach	Challenge: Respond to common patterns of Thinking.	
Differentiating Instruction	Elicit Student Thinking	
Differentiating instruction	Modify Tasks	
	Using Data to Differentiate Checkpoint #2:	
	Use Groupinator to analyze student data and recommend groups and	
	differentiated instruction lessons for each rotation.	
	Review Data: Review the performance data and groupings.	
	Plan Instruction: Based on Rotations, access digital lessons.	
	Boost Lesson related to software data.	
	Stretch Lesson related to software data.	
Accommodations/Modifications:	Students can work on additional software as a supplement to class	
	Instruction.	
Topic 2 (Lesson 3):		
	Lesson Objectives To multiply desimple less them 1 by desimple less them 1	
Teach	Lesson Objective: To multiply decimals less than 1 by decimals less than 1.	
Teaching Options	To estimate the product of decimals.	
	Language Goals:	
	Explain how to rename a decimal less than 1 as a fraction	
	Describe how to multiply two decimals that are each less than 1	
	Do Now:	
	Develop Reasoning Skills	
	Which Does Not Belong?	
	Students identify an expression that doesn't belong by estimating the	
	product of each expression. Ask students to share solutions and explain	
	their reasoning.	
	Mathematical Practice:	
	Make Use of Structure	
	reach: Play the Instructional video:	
	Muluply Decimals Less Than 1.	
	Model Multiplying Decimals Less Than 1:	
	Teach the steps to multiply 0.6×0.35 .	
	Step 1: Make an estimate.	
	Step 2. Rename the decimal factors as fractions.	
	Step 5. Find the product.	
	Step 4: Kename the product. Menace n. 164-165 Guided Practice: Demonstrate, Solve Teacther	
	Practice: Solve problems in pairs	
Checking for Understanding	Summarize and Assess:	
checking for onderstanding	Review Multiplying Decimals Less Than 1	
	Exit Ticket: mSpace p. 165	
Practice and Apply	Solve problems in pairs on mSpace pages 164-165.	
Assigning Homowork	Computer Software:	
Assigning nonework	On a daily basis, students are split into two groups: Group 1: whole group	
	guided instruction, Pair Share.	
	Group 2: Student Software:	
	Explore Zone	
	Learn Zone/Fast Track: Think, Try, Practice, Master	
	Success Zone	
	Brain Arcade: Students are responsible to complete 20 minutes in the	
	Brain Arcade per week for homework.	
Assess and Reteach	Challenge: Respond to common patterns of Thinking.	
	Elicit Student I hinking	

Differentiating Instruction Accommodations/Modifications:	Modify Tasks Using Data to Differentiate Checkpoint #2: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data. Students can work on additional software as a supplement to class instruction.
Topic 2 (Lesson 4):	
Teach Teaching Options	Lesson Objective: To apply the Distributive Property to multiply decimals. To estimate the product of decimals.
	Language Goals: Use the terms factor and product to describe the multiplication of decimals.
	Do Now: Evaluate Solutions Who's Right? Students apply the Distributive Property to identify the correct solution to a multiplication problem. Ask students to identify the correct solution and explain the error in the incorrect solution. Mathematical Practice: Attend to Precision
	Teach: Play the Instructional Video: Multiply Decimals Greater Than 1. Model Multiplying Decimals Greater Than 1: Teach the steps to multiply 3.7 × 1.9. Step 1: Make an estimate Step 2: Rename the decimal factors as fractions. Mathematical Practice: Make Use of Structure Step 3: Find the product.
	Step 4: Rename the product. Grade-Level Content Connections: The Number System Mspace p. 166-167 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Review Multiplying Decimals Greater Than 1 Exit Ticket: mSpace p.167
Practice and Apply Assigning Homework	Solve problems in pairs on mSpace pages 166-167. Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking Modify Tasks Using Data to Differentiate Checkpoint #2: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.

Topic 2 (Lesson 5):	
Teach Teaching Options	Lesson Objective: To identify patterns with decimals and describe with a rule.
	Language Goals: Use the terms decimal, input, output, pattern, and variable to discuss identifying rules for decimals in function tables and expressing the rules with variables.
	Do Now: Analyze Problems Missing Numbers Students make use of the structure of fractions and desimals to complete a
	problem with mission digits. Ask students to share solutions and explaining their reasoning. Mathematical Practice: Make Use of Structure
	Teach: Model a Function Table Problem: Teach the steps to identify and apply two-step rules with decimals in a function table. Step 1: Find the rule. Step 2: Express the rule with a variable.
	Step 3: Complete the missing outputs. Step 4: Apply the rule using a different input. Mathematical Practice: Make Use of Structure Mspace p. 168-169 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Review Identifying a Rule With Decimals Exit Ticket: mSpace p.169
Practice and Apply	Solve problems in pairs on mSpace pages 168-169.
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework
Assess and Reteach	Challenge: Respond to common patterns of Thinking. Elicit Student Thinking
	Modify Tasks Using Data to Differentiate Checkpoint #2: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
Topic 3 (Lesson 1):	
Teach	Lesson Objective: To divide decimals using equal groups.
Teaching Options	Language Goals: Define dividend, divisor, and quotient, and use them to describe a division problem. Explain how to use a decimal grid to find $2 \div 0.2$.
	Do Now: Create Structure-Build It Students rename 0.23 in words, as a fraction, and as a sum. Ask students to share solutions that are equivalent to 0.23.

	Mathematical Practice: Make Use of Structure
	Teach
	Play the Instructional Video:
	Lise Models to Divide Decimals
	Model Dividing Decimals:
	Teach the steps to divide $2 \div 0.2$ by taking out equal groups.
	Step 1: Use decimal grids to divide.
	Step 2: Rename the dividend and divisor as fractions.
	Step 3: Divide the equal parts.
	Step 4: Write the quotient.
	Grade-Level Content Connections:
	Expressions & Equations Manage n. 172, 172 Guided Practices, Demonstrate, Solve Tegether
	Practice: Solve problems in pairs
Charling for Understanding	Summarize and Assess
Checking for Understanding	Review Dividing Decimals
	Exit Ticket: mSpace p. 173
Practice and Apply	Solve problems in pairs on mSpace pages 1/2-1/3.
Assigning Homework	Computer Software.
	quided instruction Pair Share
	Group 2. Student Software
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
Topic 3 (Lesson 2):	
Teach	Lesson Objective: To analyze patterns in decimal division.
	To apply patterns to derive a rule for dividing by decimals.
leaching Options	
	Language Goals:
	Describe patterns in division by factors of 10 using the terms
	denominator, numerator, and place value.
	Do Now:
	Analyze Problems Missing Numbers
	Students solve equations involving the multiplication and division of
	fractions by filling in the missing numbers. Ask students to share solutions
	and explain their reasoning.
	Mathematical Practice: Make Use of Structure
	Teach:
	Play the Instructional Video:
	Use Patterns to Divide Decimals.
	Model Dividing Decimals Using Patterns:
	Teach the steps to identify a pattern in division and apply it to divide 0.8 \div
	0.2.
	Step 1: Find a pattern in division.
	Step 2: Use the pattern to find a rule.
	Step 3: Use the rule to divide decimals.
	Step 4: Find the quotient.
	Grade-Level Content Connections:
	Expressions & Equations
	Mspace p. 174-175 Guided Practice: Demonstrate, Solve Together

	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
	Review Dividing Decimals
	Exit Ticket: mSpace p. 175
Practice and Apply	Solve problems in pairs on mSpace pages 174-175.
Assigning Homework	Computer Software:
Assigning nomework	on a daily basis, students are split into two groups: Group 1: whole group quided instruction. Pair Share
	Group 2. Student Software.
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
8	Modify Tasks
	Using Data to Differentiate Checkpoint #3:
	differentiated instruction lessons for each rotation
	Review Data: Review the performance data and groupings
	Plan Instruction: Based on Rotations, access digital lessons
	Boost Lesson related to software data
	Stretch Lesson related to software data.
Topic 3 (Lesson 3):	
Toach	Lesson Objective: To divide decimals.
	To estimate decimal quotients relative to benchmarks.
Teaching Options	
	Language Goals:
	Describe and explain the steps for dividing one decimal by another. Explain
	sualegies for esumation.
	Do Now:
	Identify Numerical Patterns
	Find the Pattern
	Students identify a pattern by applying reasoning skills and knowledge of
	multiplying and dividing decimals. Ask students to identify the pattern and
	Name expressions that belong inside the circle.
	Teach:
	Play the Instructional Video:
	Divide Decimals.
	Model Dividing Decimals:
	Leach the steps to divide $0.3 \div 1.5$.
	Step 1. Estimate the quotient as a fraction
	Step 3: Rename the fraction as a decimal.
	Step 4: Compare the quotient to the estimate.
	Grade-Level Content Connections:
	Expressions & Equations
	Proctice: Solve problems in pairs
Chapting for Understanding	Summarize and Assess
Checking for Understanding	Review Dividing Decimals
	Exit Ticket: mSpace p. 177
Practice and Apply	Solve problems in pairs on mSpace pages 176-177.
	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole group
	guided instruction, Pair Share.
	Group 2: Student Software:
	Learn Zone/Fast Track: Think Try Practice Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
	Modify Tasks
	Using Data to Differentiate Checkpoint #3:

		Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Topic 3 ((Lesson 4):	
Teach Teaching	g Options	Lesson Objective: To divide decimals. To estimate decimal quotients. Language Goals:
		Use the term quotient to describe the solution to a division problem. Do Now: Create Structure -Build It Students arrange four numbers to create a division equation with a quotient of 7. Ask students to share solutions and explain their reasoning. Mathematical Practice: Reason Abstractly
		Teach: (Set up) Purpose: To practice dividing decimals. Teach Decimal Dare (Level 3) Step 1: Spin the spinner two times. Step 2: Use one number as tenths and the other as hundredths. Step 3: Divide tenths by hundredths and record the quotient. Step 4: Add the quotient to the previous quotient. Goal: To score closest to 50 without going over in six turns. mSpace pages 178-181
Checking	g for Understanding	Summarize and Assess: Review Game Strategy Exit Ticket: mSpace p. 181
Practice Assignin	and Apply g Homework	Solve problems in pairs on mSpace pages 178-181. Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess a Differen	nd Reteach tiating Instruction	Challenge: Respond to common patterns of Thinking. Elicit Student Thinking Modify Tasks Using Data to Differentiate Checkpoint #3: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Topic 3 ((Lesson 5):	

- •	Lessen Objectives Televelore and eshes much lesses with desired suring
Teach	Lesson Objective: To analyze and solve problems with decimals using
Teaching Options	To describe and evaluins.
	To describe and explain solution sublegies for problems with decimals.
	Language Coals:
	Use the terms divide equal groups equation and variable
	to discuss problems with decimals
	to discuss problems with declinuis.
	Do Now:
	Evaluate Solutions
	Who's Right?
	Students analyze two solutions to a problem and identify the correct
	solution. Ask students to share solutions and justify their reasoning
	Mathematical Practice: Construct Viable Arguments
	Plaulenlaucal Flacuce. Construct V lable Alguments
	Teach
	Model on Equal Crouns Droblem
	Tyrouer arrequire groups problem.
	leach the steps to identify and solve an equal groups problem with
	decimals.
	Read It!: Read and identify the problem.
	Show Itt. Represent the problem.
	Solve III: Solve the problem.
	Check It!: Check your work.
	Mspace p. 182-183 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
	Review Solving Equal Groups Problems with Decimals
	Exit licket: mSpace p. 183
Practice and Apply	Solve problems in pairs on mSpace pages 182-183.
Assigning Homework	On a daily basis, students are split into two groups: Group 1; whole group
, 1001 <u>0</u> , 100100 1001	guided instruction Pair Share
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking Medify Teelys
	Moully Tasks
	Using Data to Differentiate Checkpoint #5.
	differentiated instruction lossens for each rotation
	Review Data: Review the performance data and groupings
	Plan Instruction: Based on Rotations access digital lessons
	Boost Lesson related to software data
	Stretch Lesson related to software data.
Block 8 Performance Task	
Teach	Lesson Objective: To Manage a Tutoring Business. Students use decimal
Teaching Ontions	operations to create a schedule and calculate wages.
reaching Options	
	Teach:
	Replay Anchor Video – ", "Dollars and Sense."
	Introduce Performance Task.
	Complete the Performance task Mspace p. 184-185
	Evaluate:
	Students will be evaluated based on Performance Task Rubric
	Explore, Apply, and Analyze
Practice and Apply	On a daily basis, students are split into two groups: Group 1; whole group
Assigning Homework	quided instruction Pair Share
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the

	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiation least wet and	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Stretch Lesson related to software data
mSkills Curriculum Basad	
mokins curriculum based	To prepare students for mSkills:
Assessment 8	To prepare students for Triskills.
	Download the block of mokins Sudleyy Lesson, Student Pages,
	and Annotated Student Pages to give students talgeted practice with
	Assessment item types based on current block content.
	You may also teach the mskills Demo Lesson to give students a general
	overview of assessment item types based on prerequisite content.
	Evaluate:
	To administer mSkills:
	Go to Class Settings and assign the mSkills assessment to students. Have
	students log in to the student software.
	Allow students to review the Problem-Solving Routine.
	· · · · · · · · · · · · · · · · · · ·
	Administer:
	Reference Guide.
	The first 20 items will be digitally graded and available in Class Analytics
	Zone Progress.
	Enter scores to the constructed-response items in the
	SDP using the Scoring Rubric.
	Have students complete the Mindset Strategy in their mSpaces to reflect
	on their performance in the Block.



Formative Assessments:

The effectiveness of the instructional program will be based on teacher observations, students doing quality of work together, questioning strategies, self and peer assessment, student record-keeping, quizzes, tests,

homework, class discussion, individual conferences, performance tasks, diagnostic tests, homework, and projects

Accommodations/Modifications:

Use manipulatives to build patterns or represent symbols. Provide Graphic organizers to use in solving problems. Provide guided notes/handouts. Break problems into smaller pieces. Have students keep and turn in a notebook. Review needed skills prior to the lesson. Provide checklists for solving problems.

Summative Assessments:

Periodic chapter tests, state assessments, PSATs, End of Course tests, and SATs

Accommodations/Modifications:

Provide checklists for solving problems. Provide students with a resource page that has multiplication charts, fractions pieces. Break problems and test sections into smaller pieces

Performance Assessments:

Projects, display of student work, and electronic portfolios

Accommodations/Modifications:

Allow students extra time to complete projects. Provide students with an example of project for reference. Make a clear rubric for students to understand exactly what is expected.

PART I: UNIT RATIONALE

WHY ARE STUDENTS LEARNING THIS CONTENT AND THESE SKILLS?

Course/Unit Title:	Unit Summary:
Math Foundations I – Math	In this unit students use number sense and visual models to add and subtract positive
180	and negative numbers.
Grade Level(s):	
9	
Essential Question(s):	Enduring Understanding(s):
How do you compare and	Students will be able to:
order positive and negative	Describe situations with integers.
numbers?	Locate numbers on a number line.
	Develop number sense with integers.
	Compare positive and negative numbers.
	Sort positive and negative numbers.
	Add integers with the same sign.
	Develop strategies with integers.
	Add integers with different signs.
	Add numbers with different signs.
	 Solve problems with positive and negative numbers.
	Find distance to subtract.
	 Subtract positive and negative integers.
	 Subtract positive and negative numbers.
	Use distance strategies with integers.
	Solve integer problems with equivalence.

PART II: INSTRUCTIONAL STRATEGIES AND RESOURCES DESCRIBE THE LEARNING TARGETS.

After each target, identify the NJSLS or Common Core Standards that are applicable

Learning Target	NJSLS or CCS
	CCSS:
Understand $p + q$ as the number located a distance $ q $ from p , in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.	7.NS.A.1b
Write, interpret, and explain statements of order for rational numbers in real- world contexts. For example, write $-3 \ ^{\circ}C > -7 \ ^{\circ}C$ to express the fact that $-3 \ ^{\circ}C$ is warmer than $-7 \ ^{\circ}C$.	6.NS.C.7b
Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. For example, for an account balance of -30 dollars, write $ -30 = 30$ to describe the size of the debt in dollars.	6.NS.C.7c
Distinguish comparisons of absolute value from statements about order. For example, recognize that an account balance less than -30 dollars represents a debt greater than 30 dollars.	6.NS.C.7d

Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.	7.EE.A.1
Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. <i>For example: If a woman making \$25 an hour gets a 10% raise, she will make an additional 1/10 of her salary an hour, or \$2.50, for a new salary of \$27.50. If you want to place a towel bar 9 3/4 inches long in the center of a door that is 27 1/2 inches wide, you will need to place the bar about 9 inches from each edge; this estimate can be used as a check on the exact computation.</i>	7.EE.B.3
Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$, where p , q , and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach. For example, the perimeter of a rectangle is 54 cm. Its length is 6 cm. What is its width?	7.EE.B.4a
Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$, where p , q , and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach. For example, the perimeter of a rectangle is 54 cm. Its length is 6 cm. What is its width?	7.EE.B.4a-
Solve word problems leading to inequalities of the form $px + q > r$ or $px + q < r$, where p , q , and r are specific rational numbers. Graph the solution set of the inequality and interpret it in the context of the problem. For example: As a salesperson, you are paid \$50 per week plus \$3 per sale. This week you want your pay to be at least \$100. Write an inequality for the number of sales you need to make, and describe the solutions.	7.EE.B.4b-
Describe situations in which opposite quantities combine to make 0. For example, a hydrogen atom has 0 charge because its two constituents are oppositely charged.	7.NS.A.1a
Understand $p + q$ as the number located a distance $ q $ from p , in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.	7.NS.A.1b
Understand subtraction of rational numbers as adding the additive inverse, $p - q = p + (-q)$. Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts.	7.NS.A.1c
Apply properties of operations as strategies to add and subtract rational numbers.	7.NS.A.1d
Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., π^2). For example, by truncating the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.	8.NS.A.2

Inter-Disciplinary Connections:

Real-World problem solving examples: To solve problems related to careers in environmental science.

Students will engage with the following text:

Math 180, Scholastic, Inc. 2014

Students will write:

Writing/Open Ended questions: Students analyze function tables to identify and express multiplication patterns with whole numbers. Students use bar models to represent and solve problems by multiplying 1-digit and 2 – digit factors.

PART III: TRANSFER OF KNOWLEDGE AND SKILLS

DESCRIBE THE LEARNING EXPERIENCE.

How will students uncover content and build skills.

Students will uncover and build skills through various classroom activities. Investigating number sense activities, modeling examples, using real-life application, using note-taking strategies, and using SMARTBoard technologies will all be explored. Other learning experiences could include alternative lesson openers, math and history applications, problem solving workshops, interdisciplinary applications and extra examples of problem solving.

Suggested warm-up activities, instructional strategies/activities, and assignments:

Block 9:	Essential Question: How can students represent situations represented by integers?
Topic 1 (Lesson 1):	

	FOCUS AND MOTIVATE	Do Now! Introduce "Final Frontier" Play the Anchor Video, "Living Below Zero." Read the preview question aloud: If you were a scientist living and working in Antarctica, what would you want to research? Ask students to share their responses with the class. Mathematical Practice: Reason Abstractly
	Teach Teaching Options	Lesson Objective: To generate situations that can be represented by integers.
		Language Goals: Understand and use the terms integers, negative, and positive in complete sentences. Explain what is meant by plotting on a number line.
		Teach: Play the Instructional Video: Describe Situations With Integers. Model Plotting Integers on a Number Line: Teach the steps to plot temperatures on a number line. Step 1: Understand integers. Use the Vocabulary Routine to teach integers. Step 2: Plot positive integers on the number line. Step 3: Plot negative integers on the number line. Step 4: List cities in order of temperature. Mspace p. 190-191 Guided Practice: Demonstrate Solve Together
		Practice: Solve problems in pairs
	Checking for Understanding	Summarize and Assess: Review Plotting Integers on a Number Line Exit Ticket: mSpace p. 191
	Practice and Apply	Solve problems in pairs on mSpace pages 190-191.
	Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
	Assess and Reteach	Challenge: Respond to common patterns of Thinking. Flicit Student Thinking
	Differentiating Instruction	Modify Tasks Using Data to Differentiate Checkpoint #1: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson based on software data. Stretch Lesson based on software data.
	Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
	Topic 1 (Lesson 2):	
	Teach Teaching Options	Lesson Objective: To locate positive and negative numbers on the number line.
		Language Goals: Use precise language to describe plotting positive and negative numbers on a number line. Use the term integers to describe positive and negative whole numbers and zero.
		Do Now:

	Develop Reasoning Skills
	Which Does Not Belong?
	Students analyze a list of numbers, draw a conclusion, and justify their
	reasoning. Ask students to share their responses and explain their
	Tedsoffilig. Mathematical Dractica: Construct Viable Arguments
	Mathematical Plactice. Construct Mable Arguments
	Teach
	Play the Instructional Video:
	Locate Numbers on a Number Line
	Model Plotting Numbers on a Number Line:
	Teach the steps to plot $4 - 2 - 5 - 1/2 1/4 - 13/4$ and $21/2$
	on a number line
	Step 1: Label a number line
	Step 2: Plot integers.
	Step 3: Label a number line.
	Step 4: Plot fractions.
	Mspace p. 192-193 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
checking for onderstanding	Review Naming Fractions as Decimals
	Exit Ticket: mSpace p. 193
Practice and Apply	Solve problems in pairs on mSpace pages 192-193.
	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction, Pair Share.
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #1:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson based on software data.
	Stretch Lesson Dased on Soliware data.
Accommodations/Modifications:	instruction
Topic 1 (Lesson 3):	
• • •	
Taaah	Lesson Objective: To locate integers on the number line
Teach	Lesson objective. To locate integers on the number line.
Teaching Options	
	Language Goals: Describe location using the terms
	integers, negative, and positive when playing the game.
	Do Now:
	Develop Flexible Thinking
	Brain Teaser
	Students make sense of a riddle's meaning, look for entry points to a
	solution, and plan a solution pathway. Ask students to share their
	responses and how they solved the riddle.
	Mathematical Practice: Persevere and Solve Problems
	Teach: (Set-Up)
	Purpose:
	To practice locating positive and negative integers on a number line.
	Teach Number Jump! (Level 1)
	Step 1: Roll the number cube twice. The first roll is the target number

Checking for Understanding	and the second roll is the starting number. Mark the target number on the number line. Step 2: Roll the number cube again and record your number. Decide the direction of the jump. Step 3: Jump from the starting number or the last number landed on. Step 4: Record the landing number. Trade turns. Goal: To land on the target number. Mspace p. 194-197 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Summarize and Assess: Review Game Strategy Exit Ticket: mSpace p. 197
Practice and Apply Assigning Homework	Solve problems in pairs on mSpace pages 194-197. Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone
Assess and Datasak	Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Refeach Differentiating Instruction	Elicit Student Thinking Modify Tasks Using Data to Differentiate Checkpoint #1: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
Topic 1 (Lesson 4):	
Topic 1 (Lesson 4): Teach Teaching Options	Lesson Objective: To compare and order positive and negative numbers. Language Goals: Use the terms greater than and less than to communicate comparisons accurately. Do Now: Analyze Problems Missing Numbers Students use the structure of the number line to determine how to identify the remaining numbers. Ask students to share solutions and explain how they know where the numbers belong. Mathematical Practice: Make Use of Structure Teach: Play the Instructional Video: Compare Positive and Negative Numbers. Model Comparing Numbers: Teach the steps to plot and compare 2, -3 1/2, -6, and -1.25 on a number line. Step 1: Compare positive and negative numbers. Step 2: Compare two negative numbers. Step 3: Compare two negative numbers. Step 4: Order numbers from least to greatest. High-Leverage Practice: Lead a Discussion Mspace p. 198-199 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Summarize and Assess:

		Review Comparing Positive and Negative Numbers
	Practice and Apply	Play game in pairs on mSpace pages 198-199
	Assigning Homework	Computer Software:
		On a daily basis, students are split into two groups: Group 1: whole
		Group 2: Student Software:
		Explore Zone
		Learn Zone/Fast Track: Think, Try, Practice, Master
		SUCCESS ZONE Brain Arcade: Students are responsible to complete 20 minutes in the
		Brain Arcade per week for homework.
	Topic 1 (Lesson 5):	
	Teach	Lesson Objective: To use direction on a number line and comparison to
	Teaching Ontions	classify numbers and solve problems.
		Use the terms greater than, integers, and less than to discuss
		classifying positive and negative numbers.
		Do Now
		Evaluate Solutions
		Who's Right?
		Students analyze two different inequalities and identify the one that is
		reasoning.
		Mathematical Practice: Construct Viable Arguments
		leach: Model a Venn Diagram Problem:
		Teach the steps to sort numbers using a number line and Venn
		diagram.
		Step 1: Analyze the problem.
		Step 2: Create a number line. Step 3: Plot the numbers on the number line.
		Step 4: Complete the Venn diagram.
		Mspace p. 200-201 Guided Practice: Demonstrate, Solve Together
	Checking for Understanding	Summarize and Assess:
	Checking for Understanding	Review Sorting Positive and Negative Numbers
		Exit Ticket: mSpace p. 201
	Practice and Apply	Solve problems in pairs on mSpace pages 200-201.
	Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
		group guided instruction, Pair Share.
		Group 2: Student Software:
		Learn Zone/Fast Track: Think, Try, Practice, Master
		Success Zone
		Brain Arcade: Students are responsible to complete 20 minutes in the
	Assess and Potoach	Challenge: Respond to common patterns of Thinking.
	Differentiating Instruction	Elicit Student Thinking
		Modify Tasks
		Using Data to Differentiate Checkpoint #1:
		differentiated instruction lessons for each rotation.
		Review Data: Review the performance data and groupings.
		Plan Instruction: Based on Kotations, access digital lessons. Boost Lesson based on software data
		Stretch Lesson based on software data.
	Accommodations/Modifications:	Students can work on additional software as a supplement to class
		instruction.
	Topic 2 (Lesson 1):	

Teach	Lesson Objective: Use distance from 0 to add two positive or two
Teaching Options	negauve numbers.
•	Language Goals:
	Use the terms addend and sum to explain adding positive and negative
	integers.
	Do Now:
	Create Structure
	Build It Students create addition equations with three addends using a
	set of numbers. Ask students to share their equations and explain the
	Mathematical Practice: Make Lise of Structure
	Teach:
	Play the Instructional Video:
	Add Integers With the Same Sign.
	Model Adding Integers:
	leach the steps to add $2 + 5$ and $(-5) + (-4)$ using a number line.
	Step 1: Represent two positive integers.
	Step 2: Find the sum.
	Step 3. Represent two negative integers.
	Step 4. Find the sum. Menace p. 204-205 Guided Practice: Demonstrate Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess:
checking for onderstanding	Review Adding Integers With the Same Sign
	Exit Ticket: mSpace p. 205
Practice and Apply	Solve problems in pairs on mSpace pages 204-205.
Assigning Homowork	Computer Software:
Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction, Pair Share.
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #2:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Roost Lesson related to software data
	Stretch Lesson related to software data.
Accommodations/Modifications	Students can work on additional software as a supplement to class
	instruction.
Topic 2 (Lesson 2):	
,	
Teach	Lesson Objective: Use distance from 0 to add two positive or two
Teaching Ontions	negative integers.
reaching Options	
	Language Goals:
	Use the terms integers, negative, and positive to describe numbers on
	ute number line and directions of jumps.
	number
	number.
	Do Now:
	Analyze Problems
	Missing Numbers

	Students analyze numerical situations to determine which positive and
	students to share solutions.
	Mathematical Practice: Persevere and Solve Problems
	Tarah
	Purpose'
	To practice finding distances on the number line.
	Teach Number Jump (Level 2)
	Step 1: Player A rolls the number cube to get a starting number. Player
	Step 2: Player A rolls the number cube, determines the sign, and jumps
	from the first number to the second.
	Step 3: Find the distance using the number line.
	Step 4: Record the score. Trade turns.
	player with the most points wins.
	Mspace p. 206-209 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Review Game Strategy
	Exit Ticket: mSpace p. 209
Practice and Apply	Solve problems in pairs on mSpace pages 206-209.
Assigning Homework	Computer Software:
	group guided instruction, Pair Share.
	Group 2: Student Software:
	Explore Zone
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #2:
	Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class
	instruction.
Topic 2 (Lesson 3):	Lesson Objective: To add pacitive and pegative numbers
Teach	Lesson objective: To add positive and negative numbers.
leaching Options	Language Goals:
	Use the terms additive inverse and opposite of a number to explain
	adding numbers with unrefent signs.
	Do Now:
	Develop Flexible Thinking
	Students analyze the integers and operations given in this puzzle to
	plan a path to the solution. Ask students to share the puzzle solution
	and the equation they started with.
	Mathematical Practice: Persevere and Solve Problems
	Teach:
	Play the Instructional Video:
	Add Integers with Different Signs.
	Teach the steps to add integers with different signs and identify a
	pattern.

	Step 1: Add opposites. Use the Vocabulary Routine to teach additive
	inverse and opposite of a number.
	Step 2: Find the sum.
	Step 3: Look for a pattern.
	Step 4: Verify the pattern.
	Mspace p. 210-211 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Chacking for Understanding	Summarize and Assess:
checking for Onderstanding	Review Adding Integers
	Exit Ticket: mSnace n 211
Due attender and Annula	Solve problems in pairs on mSpace pages 210-211
Practice and Apply	Solve problems in pairs on mspace pages 210-211.
Assigning Homework	Computer Software:
	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction, Pair Snare.
	Group 2: Student Software:
	Explore Zone
	Learn Zone/Fast Track: Think, Try, Practice, Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
	Modify Tasks
	Using Data to Differentiate Checkpoint #2:
	Use Groupinator to analyze student data and recommend groups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
Accommodations/Modifications	Students can work on additional software as a supplement to class
Accommodations/ mounications.	instruction.
Topic 2 (Lesson 4):	
Topic 2 (Lesson 4):	Lesson Objective: To add positive and negative numbers.
Topic 2 (Lesson 4): Teach	Lesson Objective: To add positive and negative numbers.
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers.
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs.
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs.
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now:
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning
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Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video:
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs. Model Adding Numbers With Different Signs.
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs. Model Adding Numbers With Different Signs: Teach the stens to add (
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs. Model Adding Numbers With Different Signs: Teach the steps to add (-4 3/4) + 2 5/8
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs. Model Adding Numbers With Different Signs: Teach the steps to add (-4 3/4) + 2 5/8 using an open number line.
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs. Model Adding Numbers With Different Signs: Teach the steps to add (-4 3/4) + 2 5/8 using an open number line. Step 1: Identify the sign of the sum.
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs. Model Adding Numbers With Different Signs: Teach the steps to add (-4 3/4) + 2 5/8 using an open number line. Step 1: Identify the sign of the sum. Step 2: Find the difference.
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs. Model Adding Numbers With Different Signs: Teach the steps to add (-4 3/4) + 2 5/8 using an open number line. Step 1: Identify the sign of the sum. Step 2: Find the difference. Step 3: Add the jumps.
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs. Model Adding Numbers With Different Signs: Teach the steps to add (-4 3/4) + 2 5/8 using an open number line. Step 1: Identify the sign of the sum. Step 2: Find the difference. Step 3: Add the jumps. Step 4: Write an equation.
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs. Model Adding Numbers With Different Signs: Teach the steps to add (-4 3/4) + 2 5/8 using an open number line. Step 1: Identify the sign of the sum. Step 2: Find the difference. Step 3: Add the jumps. Step 4: Write an equation. High-Leverage Practice: Respond to Common Patterns of Thinking
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs. Model Adding Numbers With Different Signs: Teach the steps to add (-4 3/4) + 2 5/8 using an open number line. Step 1: Identify the sign of the sum. Step 2: Find the difference. Step 3: Add the jumps. Step 4: Write an equation. High-Leverage Practice: Respond to Common Patterns of Thinking Mspace p. 212-213 Guided Practice: Demonstrate, Solve Together
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs. Model Adding Numbers With Different Signs: Teach the steps to add (-4 3/4) + 2 5/8 using an open number line. Step 1: Identify the sign of the sum. Step 2: Find the difference. Step 3: Add the jumps. Step 4: Write an equation. High-Leverage Practice: Respond to Common Patterns of Thinking Mspace p. 212-213 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs. Model Adding Numbers With Different Signs: Teach the steps to add (-4 3/4) + 2 5/8 using an open number line. Step 1: Identify the sign of the sum. Step 2: Find the difference. Step 3: Add the jumps. Step 4: Write an equation. High-Leverage Practice: Respond to Common Patterns of Thinking Mspace p. 212-213 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Topic 2 (Lesson 4): Teach Teaching Options	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs. Model Adding Numbers With Different Signs: Teach the steps to add (-4 3/4) + 2 5/8 using an open number line. Step 1: Identify the sign of the sum. Step 2: Find the difference. Step 3: Add the jumps. Step 4: Write an equation. High-Leverage Practice: Respond to Common Patterns of Thinking Mspace p. 212-213 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Summarize and Assess: Review Adding Numbers With Different Signs
Topic 2 (Lesson 4): Teach Teaching Options Checking for Understanding	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs. Model Adding Numbers With Different Signs: Teach the steps to add (-4 3/4) + 2 5/8 using an open number line. Step 1: Identify the sign of the sum. Step 2: Find the difference. Step 3: Add the jumps. Step 4: Write an equation. High-Leverage Practice: Respond to Common Patterns of Thinking Mspace p. 212-213 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Summarize and Assess: Review Adding Numbers With Different Signs Exit Ticket: mSpace p.213
Topic 2 (Lesson 4): Teach Teaching Options Checking for Understanding	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs. Model Adding Numbers With Different Signs: Teach the steps to add (-4 3/4) + 2 5/8 using an open number line. Step 1: Identify the sign of the sum. Step 2: Find the difference. Step 3: Add the jumps. Step 4: Write an equation. High-Leverage Practice: Respond to Common Patterns of Thinking Mspace p. 212-213 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Summarize and Assess: Review Adding Numbers With Different Signs Exit Ticket: mSpace p.213 Solve problems in pairs on mSpace pages 212-213.
Topic 2 (Lesson 4): Teach Teaching Options Checking for Understanding Practice and Apply	Lesson Objective: To add positive and negative numbers. Language Goals: Use precise language and appropriate vocabulary to describe adding numbers with different signs. Do Now: Identify Numerical Patterns Find the Pattern Students identify a pattern in a set of equations to write the missing integers. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning Teach: Play the Instructional Video: Add Numbers With Different Signs. Model Adding Numbers With Different Signs: Teach the steps to add (-4 3/4) + 2 5/8 using an open number line. Step 1: Identify the sign of the sum. Step 2: Find the difference. Step 3: Add the jumps. Step 4: Write an equation. High-Leverage Practice: Respond to Common Patterns of Thinking Mspace p. 212-213 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs Summarize and Assess: Review Adding Numbers With Different Signs Exit Ticket: mSpace p.213 Solve problems in pairs on mSpace pages 212-213. Computer Software:

		group guided instruction. Pair Share.
		Group 2: Student Software:
		Explore Zone
		Learn Zone/Fast Track: Think, Try, Practice, Master
		Success Zone
		Brain Arcade: Students are responsible to complete 20 minutes in the
		Brain Arcade per week for homework.
As	sess and Reteach	Challenge: Respond to common patterns of Thinking.
D:f	ferentiating Instruction	Elicit Student Thinking
ווט	terentiating instruction	Modify Tasks
		Using Data to Differentiate Checkpoint #2:
		Use Groupinator to analyze student data and recommend groups and
		differentiated instruction lessons for each rotation.
		Review Data: Review the performance data and groupings.
		Plan Instruction: Based on Rotations, access digital lessons.
		Boost Lesson related to software data.
		Stretch Lesson related to software data.
Ac	commodations/Modifications:	Students can work on additional software as a supplement to class
		instruction.
То	pic 2 (Lesson 5):	
То	ach	Lesson Objective: To analyze and solve problems with positive and
-	achine Ontione	negative numbers. To explain reasoning in problems with positive and
l'ea	aching Options	negative numbers.
		Language Goals: Use the terms integers and number line to discuss
		contextualized problems.
		1
		Do Now:
		Reason About Numbers
		Number Strings -Students rearrange five integers in an expression and
		find the sum. Ask students to share their solutions and explain
		reasoning.
		Mathematical Practice: Use Repeated Reasoning
		Teach:
		Mspace p. 213-21
		Model How to Solve a Problem:
		Teach the steps to solve word problems with positive and negative
		numbers.
		Kead III: Kead the problem.
		Show It:: Represent the problem.
		Solve It!: Solve the problem.
		Check III: Check your work.
		Discriber Solve problems in pairs
	a al dia a fan I la da art ar d'ar	Summarize and Access
Ch	ecking for Understanding	Review Adding Positive and Negative Numbers
		Fxit Ticket: mSnace p.215
Pra	actice and Apply	Solve problems in pairs on mSpace pages 213-215.
	signing Llow survey	Computer Software:
As	Signing Homework	On a daily basis, students are split into two groups: Group 1: whole
		group guided instruction, Pair Share.
		Group 2: Student Software:
		Explore Zone
		Learn Zone/Fast Track: Think, Try, Practice, Master
		Success Zone
		Brain Arcade: Students are responsible to complete 20 minutes in the
		Brain Arcade per week for homework.
As	sess and Reteach	Challenge: Respond to common patterns of Thinking.
Dif	ferentiating Instruction	Elicit Student Thinking
		Modify Lasks
		Using Data to Differentiate Checkpoint #2:
		differentiated instruction lessons for each rotation
		unrelendated instruction ressons for each rotation.
		Neview Data. Neview the performance tata dhu groupings.

	Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Accommodations/Modifications:	Students can work on additional software as a supplement to class instruction.
Topic 3 (Lesson 1):	
Teach Teaching Options	Lesson Objective: To subtract by finding the distance between two positive or two negative integers. Language Goals: Explain why the difference in a subtraction equation can be greater than both numbers in the equation.
	Reason About Numbers Number Strings - Students notice that calculations are repeated as they mentally subtract the expressions. Ask students to share solutions and explain their reasoning. Mathematical Practice: Use Repeated Reasoning
	Teach: Play the Instructional Video: Find Distance to Subtract. Model Subtracting Integers: Teach the steps to subtract integers using a number line. Step 1: Plot positive integers on a number line. Step 2: Compare two expressions. Step 3: Name the difference. Step 4: Subtract two integers. Mspace p. 218-219 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Review Subtracting Integers Exit Ticket: mSpace p. 219
Practice and Apply Assigning Homework	Solve problems in pairs on mSpace pages 218-219. Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach Differentiating Instruction	Challenge: Respond to common patterns of Thinking. Elicit Student Thinking Modify Tasks Using Data to Differentiate Checkpoint #3: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Topic 3 (Lesson 2): Teach	Lesson Objective: To subtract by finding the difference between
Teaching Options	positive and negative integers. Language Goals: Use the term additive inverse and the expression "add the opposite" when subtracting positive and negative integers.

	Do Now: Develop Estimation Skills Make an Estimate Students estimate whether a difference will be positive or negative. Ask students to share solutions and explain their strategy. Mathematical Practice: Reason Abstractly
	Teach: Play the Instructional Video: Subtract Positive and Negative Integers. Model Subtracting Positive and Negative Integers: Teach the steps to identify and apply a rule for subtracting positive and negative integers. Step 1: Subtract a positive integer from a negative integer. Step 2: Subtract a negative integer from a positive integer. Step 3: Identify a pattern. Step 4: Subtract by adding the opposite. Mspace p. 220-221 Guided Practice: Demonstrate, Solve Together Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Review Subtracting Integers Exit Ticket: mSpace p. 221
Practice and Apply Assigning Homework	Solve problems in pairs on mSpace pages 220-221 Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think, Try, Practice, Master Success Zone Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach Differentiating Instruction	Challenge: Respond to common patterns of Thinking. Elicit Student Thinking Modify Tasks Using Data to Differentiate Checkpoint #3: Use Groupinator to analyze student data and recommend groups and differentiated instruction lessons for each rotation. Review Data: Review the performance data and groupings. Plan Instruction: Based on Rotations, access digital lessons. Boost Lesson related to software data. Stretch Lesson related to software data.
Topic 3 (Lesson 3):	
Teach Teaching Options	Lesson Objective: To subtract positive and negative numbers. Language Goals: Articulate and defend whether using an open number line or adding the opposite is more effective for subtracting positive and negative numbers.
	Do Now: Analyze Problems Missing Numbers Students write the missing numbers to complete the equations in the puzzle. Ask students to share solutions and explain their methods for solving the puzzle. Mathematical Practice: Persevere and Solve Problems
	Teach: Play the Instructional Video: Subtract Positive and Negative Numbers. Model Subtracting Positive and Negative Numbers: Teach the steps to subtract $(-45/8) - 1$ ³ / ₄ and $(-4.8) - 1.6$. Step 1: Subtract mixed numbers on an open number line. Step 2: Subtract by adding the opposite.

Step 3: Subtract decimals on an open number line.
Step 4: Subtract by adding the opposite.
Practice' Solve problems in pairs
Summarize and Assess:
Review Subtracting Positive and Negative Numbers
Exit Ticket: mSpace p. 224
Solve problems in pairs on mSpace pages 223-224.
Computer Software:
on a daily basis, students are split into two groups: Group 1: whole aroun quided instruction. Pair Share
Group 2: Student Software:
Explore Zone
Learn Zone/Fast Track: Think, Try, Practice, Master
Success Zone
Brain Arcade per week for homework
Challenge: Respond to common patterns of Thinking.
Elicit Student Thinking
Modify Tasks
Using Data to Differentiate Checkpoint #3:
differentiated instruction lessons for each rotation
Review Data: Review the performance data and groupings.
Plan Instruction: Based on Rotations, access digital lessons.
Boost Lesson related to software data.
Stretch Lesson related to software data.
Lesson Objective: To subtract positive and negative numbers.
Language Goals:
Use the terms benchmark numbers, difference, distance, open number
line, and opposite of a number while playing the game.
Explain effective game strategy.
Do Now
Create Structure
Build It -Students build equations with a distance of 10 using numbers
from -20 to 0. Ask students to share solutions and the strategy they
Used. Mathematical Practice: Make Lise of Structure
Teach: (Set up)
Purpose:
To practice subtracting integers.
Step 1: Both players roll the number cube. Decide whether each
number is positive or negative.
Step 2: Record the subtraction expression: Player A's number minus
Player B's number.
Player B's number. Step 3: Use the number line to subtract and check.
Player B's number. Step 3: Use the number line to subtract and check. Step 4: Record the difference. If the difference is negative, Player A scores a point. If it is positive. Player B scores a point
Player B's number. Step 3: Use the number line to subtract and check. Step 4: Record the difference. If the difference is negative, Player A scores a point. If it is positive, Player B scores a point. Goal: To score the most points after 7 rounds.
Player B's number. Step 3: Use the number line to subtract and check. Step 4: Record the difference. If the difference is negative, Player A scores a point. If it is positive, Player B scores a point. Goal: To score the most points after 7 rounds. mSpace pages 224-227.
Player B's number. Step 3: Use the number line to subtract and check. Step 4: Record the difference. If the difference is negative, Player A scores a point. If it is positive, Player B scores a point. Goal: To score the most points after 7 rounds. mSpace pages 224-227. Summarize and Assess:
Player B's number. Step 3: Use the number line to subtract and check. Step 4: Record the difference. If the difference is negative, Player A scores a point. If it is positive, Player B scores a point. Goal: To score the most points after 7 rounds. mSpace pages 224-227. Summarize and Assess: Review Game Strategy Evit Ticket: mSpace p. 227
Player B's number. Step 3: Use the number line to subtract and check. Step 4: Record the difference. If the difference is negative, Player A scores a point. If it is positive, Player B scores a point. Goal: To score the most points after 7 rounds. mSpace pages 224-227. Summarize and Assess: Review Game Strategy Exit Ticket: mSpace p. 227. Solve problems in pairs on mSpace pages 224-227.
Player B's number. Step 3: Use the number line to subtract and check. Step 4: Record the difference. If the difference is negative, Player A scores a point. If it is positive, Player B scores a point. Goal: To score the most points after 7 rounds. mSpace pages 224-227. Summarize and Assess: Review Game Strategy Exit Ticket: mSpace p. 227. Solve problems in pairs on mSpace pages 224-227. Computer Software:
Player B's number. Step 3: Use the number line to subtract and check. Step 4: Record the difference. If the difference is negative, Player A scores a point. If it is positive, Player B scores a point. Goal: To score the most points after 7 rounds. mSpace pages 224-227. Summarize and Assess: Review Game Strategy Exit Ticket: mSpace p. 227. Solve problems in pairs on mSpace pages 224-227. Computer Software: On a daily basis, students are split into two groups: Group 1: whole
Player B's number. Step 3: Use the number line to subtract and check. Step 4: Record the difference. If the difference is negative, Player A scores a point. If it is positive, Player B scores a point. Goal: To score the most points after 7 rounds. mSpace pages 224-227. Summarize and Assess: Review Game Strategy Exit Ticket: mSpace p. 227. Solve problems in pairs on mSpace pages 224-227. Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share.
Player B's number. Step 3: Use the number line to subtract and check. Step 4: Record the difference. If the difference is negative, Player A scores a point. If it is positive, Player B scores a point. Goal: To score the most points after 7 rounds. mSpace pages 224-227. Summarize and Assess: Review Game Strategy Exit Ticket: mSpace p. 227. Solve problems in pairs on mSpace pages 224-227. Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone
Player B's number. Step 3: Use the number line to subtract and check. Step 4: Record the difference. If the difference is negative, Player A scores a point. If it is positive, Player B scores a point. Goal: To score the most points after 7 rounds. mSpace pages 224-227. Summarize and Assess: Review Game Strategy Exit Ticket: mSpace p. 227. Solve problems in pairs on mSpace pages 224-227. Computer Software: On a daily basis, students are split into two groups: Group 1: whole group guided instruction, Pair Share. Group 2: Student Software: Explore Zone Learn Zone/Fast Track: Think. Try. Practice. Master

	Brain Arcade: Students are responsible to complete 20 minutes in the Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
Differentiating instruction	Modify Tasks
	Using Data to Differentiate Checkpoint #3:
	Use Groupinator to analyze student data and recommend groups and
	amerentiated instruction lessons for each rotation.
	Plan Instruction: Based on Rotations, access digital lessons
	Boost Lesson related to software data
	Stretch Lesson related to software data.
Tonia 2 (Lesson C):	
Teach	Lesson Objective: To solve problems by writing and evaluating
Teaching Options	equations with positive and negative numbers.
5 1	Language Goals:
	Understand and use the terms equivalent, negative, opposite of a
	number, and positive to discuss using pan balances to solve integer
	problems with equivalence.
	Do Now:
	Develop Flexible Thinking
	Didili Tedser Students analyze the givens and thy several possible integers in order
	to find the solution to the riddle. Ask students to share solutions and
	explain their reasoning.
	Mathematical Practice: Persevere and Solve Problems
	Teach:
	Model a Pan Balance Problem:
	Stop 1: Apply to solve pan balance problems with integers.
	Step 1: Analyze the problem.
	Step 2: Solve the problem.
	Step 4: Check your work.
	Mathematical Practice: Reason Abstractly
	Mspace p. 228-229 Guided Practice: Demonstrate, Solve Together
	Practice: Solve problems in pairs
Checking for Understanding	Summarize and Assess: Deview Solving Integer Problems With Equivalence
	Exit Ticket: mSpace p 229
Practice and Apply	Solve problems in pairs on mSpace pages 228-229.
Assigning Homowork	Computer Software:
	On a daily basis, students are split into two groups: Group 1: whole
	group guided instruction, Pair Share.
	Group 2: Student Software:
	Learn Zone/East Track: Think Try Practice Master
	Success Zone
	Brain Arcade: Students are responsible to complete 20 minutes in the
	Brain Arcade per week for homework.
Assess and Reteach	Challenge: Respond to common patterns of Thinking.
Differentiating Instruction	Elicit Student Thinking
	Moully Tasks
	Use Groupinator to analyze student data and recommend droups and
	differentiated instruction lessons for each rotation.
	Review Data: Review the performance data and groupings.
	Plan Instruction: Based on Rotations, access digital lessons.
	Boost Lesson related to software data.
	Stretch Lesson related to software data.
Block 9 Performance Task	
Teach	Lesson Objective: To Analyze Weather and Pollution Data:

		Chudente subtract positive and possitive numbers and then construct
	Teaching Options	Students subtract positive and negative numbers, and then construct
		and analyze a scatter plot.
		Teach:
		Replay Anchor Video – "Living Below Zero."
		Introduce Performance Task.
		Complete the Performance task Mspace p. 230-231.
		Evaluate:
		Students will be evaluated based on Performance Task Rubric
		Evolore Apply and Applyze
		Computer Software
	Practice and Apply	Computer Software.
	Assigning Homework	On a daily basis, students are split into two groups: Group 1: whole
		group guided instruction, Pair Snare.
		Group 2: Student Software:
		Explore Zone
		Learn Zone/Fast Track: Think, Try, Practice, Master
		Success Zone
		Brain Arcade: Students are responsible to complete 20 minutes in the
		Brain Arcade per week for homework.
	Assess and Reteach	Challenge: Respond to common patterns of Thinking.
	Assess and Releach	Flicit Student Thinking
	Differentiating Instruction	Modify Tasks
		Using Data to Differentiate Checkpoint #3:
		Use Creupingter to analyze student data and recommend groups and
		differentiated instruction lessons for each retation
		differentiated instruction lessons for each rotation.
		Review Data: Review the performance data and groupings.
		Plan Instruction: Based on Rotations, access digital lessons.
		Boost Lesson related to software data.
		Stretch Lesson related to software data.
	mSkills Curriculum Based	Review:
	Assessment O	To prepare students for mSkills:
	Assessment 9	Download the Block 5 mSkills Strategy Lesson, Student Pages,
		and Annotated Student Pages to give students targeted practice with
		assessment item types based on current Block content.
		You may also teach the mSkills Demo Lesson to give students a general
		overview of assessment item types based on prerequisite content
		or an end of abbedoment reall types babed on prerequisite contents
		Evaluater
		Lvaluate.
		To autimistic model.
		do to class seturitys and assign the misking assessment to students.
		nave students log in to the student software.
		Allow students to review the prodlem-Solving Routine.
		Administer:
		Reference Guide.
		The first 20 items will be digitally graded and available in Class
		Analytics Zone Progress.
		Enter scores to the constructed-response items in the
		SDP using the Scoring Rubric.
		Have students complete the Mindset Strategy in their mSpaces to
		reflect on their performance in the Block.

PART IV: EVIDENCE OF LEARNING IDENTIFY THE METHODS BY WHICH STUDENTS WILL DEMONSTRATE THEIR UNDERSTANDING OF CONTENT AND THEIR ABILITY TO APPLY SKILLS. IDENTIFY BLOOM'S LEVELS.



Formative Assessments:

The effectiveness of the instructional program will be based on teacher observations, students doing quality of work together, questioning strategies, self and peer assessment, student record-keeping, quizzes, tests, homework, class discussion, individual conferences, performance tasks, diagnostic tests, homework, and projects

Accommodations/Modifications:

Use manipulatives to build patterns or represent symbols. Provide Graphic organizers to use in solving problems. Provide guided notes/handouts. Break problems into smaller pieces. Have students keep and turn in a notebook. Review needed skills prior to the lesson. Provide checklists for solving problems.

Summative Assessments:

Periodic chapter tests, state assessments, PSATs, End of Course tests, and SATs

Accommodations/Modifications:

Provide checklists for solving problems. Provide students with a resource page that has multiplication charts, fractions pieces. Break problems and test sections into smaller pieces

Performance Assessments:

Projects, display of student work, and electronic portfolios

Accommodations/Modifications:

Allow students extra time to complete projects. Provide students with an example of project for reference. Make a clear rubric for students to understand exactly what is expected.