# Belvidere Cluster Wide Mathematics Curriculum 5th grade Updated Fall 2018

#### All Belvidere Cluster curriculum and instruction areas are aligned to the New Jersey Student Learning Standards (NJSLS) in accordance with the NJ Department of Education's curriculum implementation requirements.

# **Interdisciplinary Connections**

– English Language Arts

- Science and Scientific Inquiry (Next Generation)

Social Studies

Technology

- Visual and Performing Arts

Technology Standards and Integration iPads/Chromebooks Go Math online resources Xtra Math Interactive SmartBoard activities

NJSLA Technology

8.1.2.A.2

Create a document using a word processing application.

8.1.2.A.4

Demonstrate developmentally appropriate navigation skills in virtual environments (i.e.

games, museums).

8.1.P.B.1

Create a story about a picture taken by the student on a digital camera or mobile device.

8.1.P.C.1

Collaborate with peers by participating in interactive digital games or activities.

8.1.2.E.1

Use digital tools and online resources to explore a problem or issue.

### CAREER EDUCATION (NJDOE CTE Clusters)

- Education & Training
- Finance
- Information Technology
- Science, Technology, Engineering & Mathematics (STEM)

# 21st Century Skills/ Themes

- Financial, Economic, Business and Entrepreneurial Literacy
- Creativity and Innovation
- Critical Thinking
- Problem Solving

- Communication

- Collaboration

– Information Literacy

CRP1. Act as a responsible and contributing citizen and employee.

CRP2. Apply appropriate academic and technical skills.

CRP3. Attend to personal health and financial well-being.

CRP4. Communicate clearly and effectively and with reason.

CRP5. Consider the environmental, social and economic impacts of decisions.

CRP6. Demonstrate creativity and innovation.

CRP7. Employ valid and reliable research strategies.

CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.

CRP9. Model integrity, ethical leadership and effective management.

CRP10. Plan education and career paths aligned to personal goals.

CRP11. Use technology to enhance productivity.

CRP12. Work productively in teams while using cultural global competence.

### Integrated Accommodations and Modifications

### **Special Education**

- Printed copy of board work/notes provided
- Additional time for skill mastery
- Assistive technology
- Behavior management plan
- Center-Based Instruction
- Check work frequently for understanding
- Computer or electronic device utilization
- Extended time on tests/ quizzes
- Have student repeat directions to check for understanding
- Highlighted text visual presentation
- Modified assignment format
- Modified test content
- Modified test format
- Modified test length
- Multiple test sessions
- Multi-sensory presentation
- Preferential seating
- Preview of content, concepts, and vocabulary
- Reduced/shortened written assignments
- Secure attention before giving instruction/directions
- Shortened assignments
- Student working with an assigned partner
- Teacher initiated weekly assignment sheet
- Use open book, study guides, test prototypes
- Cubing activities
- Exploration by interest
- Flexible grouping
- Goal setting with students
- Jigsaw
- Mini workshops to re-teach or extend skills Open-ended activities
- Think-Pair-Share
- Varied supplemental materials

### <u>ELL</u>

- Allowing students to correct errors (looking for understanding)
- Teaching key aspects of a topic Eliminate nonessential information Using videos, illustrations, pictures, and drawings to explain or clarify
- allowing products (projects, timelines, demonstrations, models, drawings, dioramas, poster boards, charts, graphs, slideshows, videos, etc.) to demonstrate student's learning
- Allowing students to correct errors (looking for understanding)
- Allowing the use of note cards or open-book during testing
- Decreasing the amount of work presented or required
- Having peers take notes or providing a copy of the teacher's notes
- Modifying tests to reflect selected objectives
- Providing study guides
- Reducing the number of answer choices on a multiple choice test
- Tutoring by peers
- Explain/clarify key vocabulary terms

### <u>At Risk</u>

- Allowing students to correct errors (looking for understanding)
- Teaching key aspects of a topic Eliminate nonessential information allowing products (projects, timelines, demonstrations, models, drawings, dioramas, poster boards, charts, graphs, slideshows, videos, etc.) to demonstrate student's learning
- Allowing students to select from given choices .
- Allowing the use of note cards or open-book during testing
- Collaborating (general education teacher and specialist) to modify vocabulary, omit or modify items to reflect objectives for the student, eliminate sections of the test, and determine how the grade will be determined prior to giving the test
- decreasing the amount of work presented or required .
- Having peers take notes or providing a copy of the teacher's notes
- Marking students' correct and acceptable work, not the mistakes
- Modifying tests to reflect selected objectives
- Providing study guides
- Reducing the number of answer choices on a multiple choice test
- Tutoring by peers
- Using authentic assessments with real-life problem-solving
- Using true/false, matching, or fill in the blank tests in lieu of essay tests
- using videos, illustrations, pictures, and drawings to explain or clarify
- Flexible grouping
- Goal setting with students
- Jigsaw
- Mini workshops to re-teach or extend skills Open-ended activities
- Think-Pair-Share
- Varied supplemental materials

### Gifted and Talented

- Alternative formative and summative assessments
- Choice boards
- Games and tournaments
- Group investigations
- Independent research and projects Interest groups for real world application
- Learning contracts
- Leveled rubrics
- Multiple intelligence options

- Personal agendas
- Project-based learning
- Problem-based learning
- Stations/centers
- Think-Tac-Toes
- Tiered activities/assignments
- Tiered products

# <u>504</u>

- Printed copy of board work/notes provided
- Additional time for skill mastery
- Assistive technology
- Behavior management plan
- Center-Based Instruction
- Check work frequently for understanding
- Computer or electronic device utilization
- Extended time on tests/ quizzes
- Have student repeat directions to check for understanding
- Highlighted text visual presentation
- Modified assignment format
- Modified test content
- Modified test format
- Modified test length
- Multiple test sessions
- Multi-sensory presentation
- Preferential seating
- Preview of content, concepts, and vocabulary
- Reduced/shortened written assignments
- Secure attention before giving instruction/directions
- Shortened assignments
- Student working with an assigned partner
- Seacher initiated weekly assignment sheet
- Use open book, study guides, test prototype
- Exploration by interest
- Flexible grouping
- Goal setting with students
- Mini workshops to re-teach or extend skills Open-ended activities
- Think-Pair-Share
- Varied supplemental materials

### Belvidere Cluster Wide Mathematics Curriculum

Grade 5			
Unit Plan #1			
Title: Decimal Concepts			
Grade Level: 5			
Unit Summary:	Init Summary: This unit will allow all students to extend number sense by understanding decimals and		
place value to th			
	Learning Ta	rgets	
PARCC 📕 Major C	Clusters; 💶 Supporting Clusters; 으 Additio	nal Clusters	
Domain: Numbe	er and Operations in Base Ten		
Cluster:	Cluster:		
Understand	the place value system.		
Standard #'s:	Standard:		
5.NBT.1	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.		
<mark>5.NBT.3</mark>	<ul> <li>Read, write, and compare decimals to thousandths.</li> <li>a. Read and write decimals to thousandths using base-ten numerals, number names and expanded form.</li> <li>b. Compare two decimals to thousandths based on the meanings of the digits in each place, using &gt;, =, and &lt; symbols to record the results of comparisons.</li> </ul>		
5.NBT.4	Use place value understanding to roun	d decimals to any place.	
Domain: Standa	ards for Math Practice		
Standard #:	Standard:		
MP1	Making sense of problems and perseve	ere in solving them.	
MP2	Reason abstractly and quantitatively.		
MP3	Construct viable arguments and critique	e the reasoning of others.	
MP4	Model with mathematics.		
MP5	Use appropriate tools strategically.		
MP6 MP7	Attend to precision. Look for and make use of structure.		
MP8	Look for and express regularity in repe	ated reasoning	
-		Unit Enduring Understanding:	
		A quantity can be represented	
<ul> <li>Unit Objectives:</li> <li>Students will identify place value.</li> <li>Students will compare decimals to thousandths.</li> <li>Students will round decimals to any place within thousandths.</li> <li>Evidence of Learning</li> </ul>			
Possible Formative Assessments:			
<ul> <li>SMART Response Questions used throughout unit</li> </ul>			
• Quizzes			
<ul> <li>Homework</li> <li>Exit Slips</li> <li>White Board Participation</li> <li>Peer Review</li> <li>Graded Classwork</li> </ul>			
Possible Summative Assessment:			

Unit Test		
Possible Benchmark Assessments:		
Go Math Benchmark		
Unit Assessment		
Possible Alternative Assessments:		
Choice boards - projects		
<ul> <li>Skit</li> </ul>		
Demonstration		
Journaling		
Conferencing		
Suggested Les		
Topics	Approximate Timeframe	
Topic #1: What is a Decimal?	1 day	
Lab: Decimals in the Real World		
Topic #2: Identify Place Values Topic #3: Read and Write Decimals	3 days	
Possible Quiz #1	4 days	
Topic #4: Compare and Order Decimals (with an		
understanding of place value, through the		
thousandths)	E deve	
Lab: Standing Long Jump and Hanging Numbers	5 days	
Out to Dry		
Possible Quiz #2		
Topic #5: Round Numbers to Designated Place		
Values 6 days		
Lab: RAFT – Round Jack		
Possible Quiz #3 Review & Unit Test		
Curriculum Resources	2 days	
• <u>https://njctl.org/courses/math/5th-grade-math/de</u>	<u>cimal-concepts/attachments/grade-5-math-un</u>	
<u>it-plan-1/</u>		
<ul> <li><u>http://www.raftbayarea.org/ideas/Round%20Jack.pdf</u></li> </ul>		
Approved Classroom Textbook     Lesson Components		
	Junems	
<ul> <li>21<sup>st</sup> Century Skills</li> <li>Financial, Economic, Business, and Entrepreneurial Literacy</li> </ul>		
<ul> <li>Financial, Economic, Business, and Entrepreneurial Eneracy</li> <li>21<sup>st</sup> Century Themes</li> </ul>		
Critical Thinking and Problem Solving		
Communication and Collaboration		
Life and Career Skills		

Belvidere Cluster Wide	
Mathematics Curriculum	
Grade 5	
Unit Plan #2	

Title: Decimal	Computation	
Grade Level: 5	•	Approximate Length of Time: 4.5 weeks
<b>Unit Summary:</b> This unit will allow all students to apply and extend previous understandings of addition,		
	multiplication as it applies to decimals.	
	Learning	Targets
PARCC 📕 Major (	Clusters; 🗖 Supporting Clusters; 📮 Addi	tional Clusters
Domain: Numb	er and Operations in Base Ten	
Cluster:		
<ul> <li>Perform</li> </ul>	operations with multi-digit whole numl	pers and decimals to hundredths.
Standard #:	Standard:	
NBT.5	Fluently multiply multi-digit whole numbers using the standard algorithm.	
NBT.7	Add, subtract, multiply, and divide decimals to hundredths, using concrete models or	
(add, subtract,	drawings and strategies based on place value, properties of operations, and/or the	
multiply only)		btraction; relate the strategy to a written method and
	explain the reasoning used.	
Domain: Standa	ards for Math Practice	
Standard #:	Standard:	
MP1	Making sense of problems and persevere in solving them.	
MP2	Reason abstractly and quantitatively.	
MP3	Construct viable arguments and critique the reasoning of others.	
MP4	Model with mathematics.	
MP5	Use appropriate tools strategically.	
MP6	Attend to precision.	
MP7	Look for and make use of structure.	
MP8	Look for and express regularity in rep	peated reasoning.
Unit Essential	-	Unit Enduring Understandings:
	tions affect numbers?	<ul> <li>The magnitude of numbers affects the</li> </ul>
	a computation on strategy both	outcome of operations on them.
effective & eff	icient?	<ul> <li>There are multiple algorithms for finding a most execution.</li> </ul>
		mathematical solution.
strategies ba subtraction.	add, subtract, multiply decimals to hur	ndredths using concrete models or drawings and ation and/or the relationship between addition and sing the standard algorithm.
	Evidence of	
Possible Form	ative Assessments:	-
• SMART Resp	onse Questions used throughout unit	
• Quizzes		
Homework		
• Exit Slips		
White Board Participation		
Possible Summative Assessment:		
Possible Benc	hmark Assessments:	
Go Math Be	enchmark	
Unit Assessment		
White Board F     Peer Review     Graded Class     Possible Summ     Unit Test     Possible Bence	work native Assessment: hmark Assessments: enchmark	

Possible Alternative Assessments:		
Choice boards - projects		
Skit		
Demonstration		
Journaling		
Conferencing		
	d Lesson Plan	
Topics	Approximate Timeframe	
Topic #1: Decimal Addition		
Lab: Decimal Cross Number Puzzles		
Lab: Decimal Addition to 500	5 days	
Lab: RAFT – Easy Piecy Decimals		
Possible Quiz #1		
Topic #2: Decimal Subtraction		
Lab: Decimal Subtraction to Zero	5 days	
Possible Quiz #2		
Topic #2: Review multiplication of multi-digit whole		
numbers	4 days	
Possible Quiz #3		
Topic #3: Decimal Multiplication		
Lab: Dungeon Floor Plans	4 days	
Possible Quiz #4		
Topic #4: Real Life Application: Mixed Word	2 days	
Problems		
Review & Unit Test	2 days	
Curriculum Resources		
https://njctl.org/courses/math/5th-grade-math/decimal-computation/		
http://www.raftbayarea.org/ideas/Easy%20Piecy%20Decimals.pdf		
Approved Classroom Textbook		
Lesson Components		
21 <sup>st</sup> Century Skills		
Financial, Economic, Business, and Entrepreneurial Literacy		
21 <sup>st</sup> Century Themes		
Critical Thinking and Problem Solving		
Communication and Collaboration		
Life and Career Skills		

	Mathematics Curriculum		
Grade 5 Unit Plan #3			
			Titles Division
Title: Division			
Grade Level: 5	Approximate Length of Time: 5 weeks		
	This unit will allow all students to apply and extend previous understandings of		
multiplication ar	nd division of whole numbers as it applies to decimals.		
	Learning Targets		
PARCC 📕 Major (	Clusters; 🗖 Supporting Clusters; 🜻 Additional Clusters		
Domain: Numb	er and Operations in Base Ten		
Cluster:			
Understand place	ce value system		
Standard #:	Standard:		
NBT.2	Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.		
Cluster:	· · · · · · · · · · · · · · · · ·		
Perform operation	ons with multi-digit whole numbers and decimals to hundredths.		
Standard #:	Standard:		
NBT.6	Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.		
<mark>NBT.7</mark> (division)	Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.		
Domain: Numb	er and Operations – Fractions		
Cluster:			
Apply and exter	nd previous understandings of multiplication and division to multiply and divide fractions.		
Standard #:	Standard:		
5.NF.3	Interpret a fraction as division of the numerator by the denominator $(a/b = a \div b)$ . Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers, e.g., by using visual fraction models or equations to represent the problem.		
Domain: Standa	ards for Math Practice		
Standard #:	Standard:		
MP1	Making sense of problems and persevere in solving them.		
MP2	Reason abstractly and quantitatively.		
MP3	Construct viable arguments and critique the reasoning of others.		
MP4	Model with mathematics.		
MP5	Use appropriate tools strategically.		
MP6	Attend to precision.		
MP7	Look for and make use of structure.		

MP8 Look for and express regularity in re	epeated reasoning.	
Unit Essential Questions:	Unit Enduring Understandings:	
<ul> <li>How do operations affect numbers?</li> </ul>	The magnitude of numbers affects the	
What makes a computation on strategy both outcome of operations on them.		
effective & efficient?	<ul> <li>There are multiple algorithms for finding a</li> </ul>	
	mathematical solution.	
Unit Objectives:		
• Students will interpret patterns when multiplying an		
Students will represent powers of 10 as exponents		
	by up to two digit divisors and up to four digit divisors. of Learning	
Possible Formative Assessments:	of Learning	
SMART Response Questions used throughout unit		
Quizzes		
<ul><li>Homework</li><li>Exit Slips</li></ul>		
White Board Participation		
Peer Review		
Graded Classwork		
Possible Summative Assessment:		
Unit Test		
Possible Benchmark Assessments:		
Go Math Benchmark		
Unit Assessment		
Possible Alternative Assessments:		
Choice boards - projects		
Skit		
Demonstration		
• Journaling		
Conferencing		
	Lesson Plan	
Topics	Approximate Timeframe	
Topic #1: Divisibility Rules Possible Quiz #1	2 days	
Topic #2: Patterns in Multiplication and Division by		
powers of ten	1.5 week	
Possible Quiz #2		
Topic #3: Division of whole numbers (up to 4 digit		
dividend and 2 digit divisor)	2.5 weeks	
Possilbe Quiz #3&4		
bic #4: Division of decimals to the hundredths		
Lab – More Bang for Your Buck 1 week		
Possible Quiz #5		
Curriculum Resources		
<ul> <li><u>https://njctl.org/courses/math/5th-grade-math/division/</u></li> </ul>		
Approved Classroom Texts		
Lesson C	omponents	

# 21<sup>st</sup> Century Skills

• Financial, Economic, Business, and Entrepreneurial Literacy

# 21<sup>st</sup> Century Themes

- Critical Thinking and Problem Solving
- Communication and Collaboration
- Life and Career Skills

Mathematics Curriculum Grade 5		
Title: Algebraic Concepts		
Grade Level: 5	Approximate Length of Time: 5 weeks	
<b>Unit Summary:</b> This unit will allow students to analyzing patterns and relationships.	write and interpret numerical expressions in addition to	
	earning Targets	
PARCC Major Clusters; Supporting Clusters;	Additional Clusters	
<b>Domain:</b> Operations and Algebraic Thinking		
Cluster:		
Write and interpret numerical expressions		
Standard #:	Standard:	
5.0A.1	Use parentheses, brackets, or braces in numerical expressions, and evaluate expression with these symbols.	
5.OA.2	Write simple expressions with numbers, and interpret numerical expressions without evaluating them.	
Cluster: Analyze patterns and relationships		
Standard #:	Standard:	
<mark>5.OA.3</mark>	Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the coordinate pairs on the coordinate plane.	
Cluster:		
	real-world and mathematical problems. (Introduced in this unit standard 5.OA.3. Mastery will be assessed in the Geometry	
Standard #:	Standard:	
<mark>5.G.1</mark> (Not directly assessed)	Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel	

y-coordinate).

<mark>5.G.2</mark>

assessed in the Geometry unit.)

that the names of the two axes and the coordinates correspond (e.g., *x*-axis and *x*-coordinate, *y*-axis and

(Introduced in this unit in order to prepare students for the graphing in standard 5.OA.3. Mastery will be

Represent real world and mathematical problems by

graphing points in the first quadrant of the coordinate

	plane, and interpret coordinate values of points in the context of the situation.		
Domain: Standards for Math Practice			
Standard #:	Standard:		
MP1	Making sense of problems and persevere in solving them.		
MP2	Reason abstractly and quantitatively.		
MP3	Construct viable arguments and critique the reasoning of others.		
MP4	Model with mathematics.		
MP5	Use appropriate tools strategically.		
MP6	Attend to precision.		
MP7	Look for and make use of structure.		
MP8	Look for and express regularity in repeated reasoning.		
Unit Essential Questions:	Unit Enduring Understandings:		
<ul> <li>How can a situation be best represented as an algebraic expression?</li> <li>What numerical patterns can be identified in real-life scenarios?</li> <li>How can patterns be represented on the coordinate grid?</li> </ul>	<ul> <li>Algebra provides language through which we communicate the patterns in mathematics.</li> <li>The use of algebra requires the ability to represent data in graphs, expression and rules.</li> </ul>		
<ul> <li>Students will write simple expressions &amp; interpre</li> <li>Students will use two numerical patterns using two students</li> </ul>	vo given rules, "in & out".		
Possible Formative Assessments:	e of Learning		
<ul> <li>SMART Response Questions used throughout un</li> </ul>	it		
<ul> <li>4 Quizzes</li> </ul>			
Homework			
• Exit Slips			
White Board Participation			
Peer Review			
Graded Classwork			
Possible Summative Assessment:			
Unit Test			
Possible Benchmark Assessments:			
<ul><li>Go Math Benchmark</li><li>Unit Assessment</li></ul>			
Possible Alternative Assessments:			
<ul><li>Choice boards - projects</li><li>Skit</li></ul>			
Demonstration			
<ul><li>Journaling</li><li>Conferencing</li></ul>			
•			
Suggested Lesson Plan			
Topics	Approximate Timeframe		

1⁄2 day
1 day
1 009
1 week
2 days
2 days
1 week
I week
2 weeks
ebraic-concepts/
0Function%20Machine.pdf

Communication and Co
Life and Career Skills

Belvidere Cluster Wide	
Mathematics Curriculum	

Grade 5			
	Unit Plan #5		
Title: Measurement and Data			
Grade Level: 5		Approximate Length of Time: 4 weeks	
	<b>y:</b> This unit will develop an understanding of the conversion within systems of measurements. rectangular prisms will be determined by layering unit cubes, leading to the formula.		
	Learning		
PARCC 📕 Major (		cional Clusters	
Domain: Measu	irement and Data		
Cluster:			
Convert like me	asurement units within a given measure	ement system.	
Standard #:	Standard:		
5.MD.1	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.		
addition.	Geometric measurement: Understand concepts of volume and relate volume to multiplication and to		
Standard #:	Standard:		
	Recognize volume as an attribute of s measurement.	solid figures and understand concepts of volume	
5.MD.3	a. A cube with side length 1 unit, called a "unit cube," is said to have "one cubic unit" of volume, and can be used to measure volume.		
	b. A solid figure which can be packed without gaps or overlaps using <i>n</i> unit cubes is said to have a volume of <i>n</i> cubic units.		
5.MD.4	Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.		
	Relate volume to the operations of me mathematical problems involving volu	ultiplication and addition and solve real world and ime.	
<mark>5.MD.5</mark>	a. Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base. Represent threefold whole-number products as volumes, e.g., to represent the associative property of multiplication.		
	b. Apply the formulas $V = I \times w \times h$ and $V = b \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths in the context of solving real world and mathematical problems.		
c. Recognize volume as additive. Find volumes of solid figures composed o non-overlapping right rectangular prisms by adding the volumes of the non-parts, applying this technique to solve real world problems.		ms by adding the volumes of the non-overlapping	
Domain: Standa	ards for Math Practice		
Standard #:	Standard:		
MP1	Making sense of problems and persev	vere in solving them.	
MP2	Reason abstractly and quantitatively.		

hers.
s:
represented in various ways.
ermined by using unit cubes.
a second construction of
g word problems.
oproximate Timeframe
3 days
3 days
1 week
0.5 week
<u>a/</u>

# 21st Century Skills

• Financial, Economic, Business, and Entrepreneurial Literacy

# 21st Century Themes

- Critical Thinking and Problem Solving
- Communication and Collaboration
- Life and Career Skills

		atics Curriculum
		Grade 5
		nit Plan #6
	Operations Part 1	
Grade Level: 8	5	Approximate Length of Time: 4 weeks
		ther their understanding of fractions. Using equivalence
they will add ar	nd subtract fractions with unlike der	
		ning Targets
	or Clusters; Supporting Cluster	
	per and Operations – Fractions	
Cluster:		
	fractions as a strategy to add and	subtract fractions.
Standard #:	Standard:	
		unlike denominators (including mixed numbers) by
5.NF.1	equivalent sum or difference of f	uivalent fractions in such a way as to produce an
		ddition and subtraction of fractions referring to the same denominators, e.g., by using visual fraction models or
5.NF.2		em. Use benchmark fractions and number sense of
		d assess the reasonableness of answers.
Cluster:	,	
Apply and exte	nd previous understandings of mult	tiplication and division to multiply and divide fractions.
		tiplication and division to multiply and divide fractions.
Apply and exte	Standard:	
Standard #:	Standard: Interpret a fraction as division of	tiplication and division to multiply and divide fractions. the numerator by the denominator $(a/b = a \div b)$ . Solve of whole numbers leading to answers in the form of
	Standard: Interpret a fraction as division of word problems involving division fractions or mixed numbers, e.g.	the numerator by the denominator $(a/b = a \div b)$ . Solve of whole numbers leading to answers in the form of
Standard #:	Standard: Interpret a fraction as division of word problems involving division fractions or mixed numbers, e.g. the problem.	the numerator by the denominator $(a/b = a \div b)$ . Solve
Standard #:	Standard: Interpret a fraction as division of word problems involving division fractions or mixed numbers, e.g.	the numerator by the denominator $(a/b = a \div b)$ . Solve of whole numbers leading to answers in the form of
Standard #:	Standard: Interpret a fraction as division of word problems involving division fractions or mixed numbers, e.g. the problem.	the numerator by the denominator $(a/b = a \div b)$ . Solve of whole numbers leading to answers in the form of
Standard #: 5.NF.3 Domain: Stand Standard #: MP1	Standard:         Interpret a fraction as division of word problems involving division fractions or mixed numbers, e.g. the problem.         lards for Math Practice         Standard:         Making sense of problems and problems	the numerator by the denominator $(a/b = a \div b)$ . Solve of whole numbers leading to answers in the form of , by using visual fraction models or equations to represer persevere in solving them.
Standard #: 5.NF.3 Domain: Stand Standard #: MP1 MP2	Standard:         Interpret a fraction as division of word problems involving division fractions or mixed numbers, e.g. the problem.         dards for Math Practice         Standard:         Making sense of problems and p         Reason abstractly and quantitati	the numerator by the denominator $(a/b = a \div b)$ . Solve of whole numbers leading to answers in the form of , by using visual fraction models or equations to represer persevere in solving them. vely.
Standard #: 5.NF.3 Domain: Stand Standard #: MP1 MP2 MP3	Standard:         Interpret a fraction as division of word problems involving division fractions or mixed numbers, e.g. the problem.         dards for Math Practice         Standard:         Making sense of problems and p         Reason abstractly and quantitati         Construct viable arguments and	the numerator by the denominator $(a/b = a \div b)$ . Solve of whole numbers leading to answers in the form of , by using visual fraction models or equations to represer persevere in solving them. vely.
Standard #: 5.NF.3 Domain: Stand Standard #: MP1 MP2 MP3 MP4	Standard:         Interpret a fraction as division of word problems involving division fractions or mixed numbers, e.g. the problem.         dards for Math Practice         Standard:         Making sense of problems and p         Reason abstractly and quantitati         Construct viable arguments and         Model with mathematics.	the numerator by the denominator $(a/b = a \div b)$ . Solve of whole numbers leading to answers in the form of , by using visual fraction models or equations to represer persevere in solving them. vely. critique the reasoning of others.
Standard #: 5.NF.3 Domain: Stand Standard #: MP1 MP2 MP3 MP4 MP5	Standard:         Interpret a fraction as division of word problems involving division fractions or mixed numbers, e.g. the problem.         lards for Math Practice         Standard:         Making sense of problems and p         Reason abstractly and quantitati         Construct viable arguments and         Model with mathematics.         Use appropriate tools strategical	the numerator by the denominator $(a/b = a \div b)$ . Solve of whole numbers leading to answers in the form of , by using visual fraction models or equations to represer persevere in solving them. vely. critique the reasoning of others.
Standard #: 5.NF.3 Domain: Stand Standard #: MP1 MP2 MP3 MP4 MP5 MP6	Standard:         Interpret a fraction as division of word problems involving division fractions or mixed numbers, e.g. the problem.         dards for Math Practice         Standard:         Making sense of problems and p         Reason abstractly and quantitati         Construct viable arguments and         Model with mathematics.         Use appropriate tools strategical         Attend to precision.	the numerator by the denominator $(a/b = a \div b)$ . Solve of whole numbers leading to answers in the form of , by using visual fraction models or equations to represer persevere in solving them. vely. critique the reasoning of others.
Standard #: 5.NF.3 Domain: Stand Standard #: MP1 MP2 MP3 MP3 MP4 MP5 MP6 MP7	Standard:         Interpret a fraction as division of word problems involving division fractions or mixed numbers, e.g. the problem.         dards for Math Practice         Standard:         Making sense of problems and p         Reason abstractly and quantitati         Construct viable arguments and         Model with mathematics.         Use appropriate tools strategical         Attend to precision.         Look for and make use of structure	the numerator by the denominator ( <i>a/b</i> = <i>a</i> ÷ <i>b</i> ). Solve of whole numbers leading to answers in the form of , by using visual fraction models or equations to represer persevere in solving them. vely. critique the reasoning of others.
Standard #: 5.NF.3 Domain: Stand Standard #: MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8	Standard:         Interpret a fraction as division of word problems involving division fractions or mixed numbers, e.g. the problem.         Jards for Math Practice         Standard:         Making sense of problems and p         Reason abstractly and quantitati         Construct viable arguments and         Model with mathematics.         Use appropriate tools strategical         Attend to precision.         Look for and make use of structu         Look for and express regularity i	the numerator by the denominator ( <i>a/b</i> = <i>a</i> ÷ <i>b</i> ). Solve of whole numbers leading to answers in the form of , by using visual fraction models or equations to represer persevere in solving them. vely. critique the reasoning of others.
Standard #: 5.NF.3 Domain: Stand Standard #: MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8 Unit Essential	Standard:         Interpret a fraction as division of word problems involving division fractions or mixed numbers, e.g. the problem.         dards for Math Practice         Standard:         Making sense of problems and p         Reason abstractly and quantitati         Construct viable arguments and         Model with mathematics.         Use appropriate tools strategical         Attend to precision.         Look for and make use of structu         Look for and express regularity i         Questions:	the numerator by the denominator ( <i>a/b</i> = <i>a</i> ÷ <i>b</i> ). Solve of whole numbers leading to answers in the form of , by using visual fraction models or equations to represer persevere in solving them. vely. critique the reasoning of others.
Standard #: 5.NF.3 Domain: Stand Standard #: MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8 Unit Essential • How do oper	Standard:         Interpret a fraction as division of word problems involving division fractions or mixed numbers, e.g. the problem.         lards for Math Practice         Standard:         Making sense of problems and p         Reason abstractly and quantitati         Construct viable arguments and         Model with mathematics.         Use appropriate tools strategical         Attend to precision.         Look for and make use of structu         Look for and express regularity i         Questions:         ations affect numbers?	the numerator by the denominator ( <i>a/b</i> = <i>a</i> ÷ <i>b</i> ). Solve of whole numbers leading to answers in the form of , by using visual fraction models or equations to represer persevere in solving them. vely. critique the reasoning of others. lly. ure. n repeated reasoning. <b>Unit Enduring Understandings:</b> • A fraction is really a division problem.
Standard #: 5.NF.3 Domain: Stand Standard #: MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8 Unit Essential • How do oper • How are physe	Standard:         Interpret a fraction as division of word problems involving division fractions or mixed numbers, e.g. the problem.         lards for Math Practice         Standard:         Making sense of problems and p         Reason abstractly and quantitati         Construct viable arguments and         Model with mathematics.         Use appropriate tools strategical         Attend to precision.         Look for and make use of structu         Look for and express regularity i         Questions:         ations affect numbers?         sical models used to clarify	the numerator by the denominator ( <i>a/b</i> = <i>a</i> ÷ <i>b</i> ). Solve of whole numbers leading to answers in the form of , by using visual fraction models or equations to represer persevere in solving them. vely. critique the reasoning of others. lly. ure. n repeated reasoning. <b>Unit Enduring Understandings:</b> • A fraction is really a division problem. • An understanding of equivalent fractions is
Standard #: 5.NF.3 Domain: Stand Standard #: MP1 MP2 MP3 MP4 MP5 MP6 MP7 MP8 Unit Essential • How do oper	Standard:         Interpret a fraction as division of word problems involving division fractions or mixed numbers, e.g. the problem.         lards for Math Practice         Standard:         Making sense of problems and p         Reason abstractly and quantitati         Construct viable arguments and         Model with mathematics.         Use appropriate tools strategical         Attend to precision.         Look for and make use of structu         Look for and express regularity i         Questions:         ations affect numbers?         sical models used to clarify	the numerator by the denominator ( <i>a/b</i> = <i>a</i> ÷ <i>b</i> ). Solve of whole numbers leading to answers in the form of , by using visual fraction models or equations to represer persevere in solving them. vely. critique the reasoning of others. lly. ure. n repeated reasoning. <b>Unit Enduring Understandings:</b> • A fraction is really a division problem.

• Students will add and subtract fractions with unlike denominators, including mixed numbers.

**Evidence of Learning** 

#### **Possible Formative Assessments:**

- SMART Response Questions used throughout unit
- Quizzes
- Homework
- Exit Slips
- White Board Participation
- Peer Review
- Graded Classwork

### Possible Summative Assessment:

Unit Test

### Possible Benchmark Assessments:

- Go Math Benchmark
- Unit Assessment

# Possible Alternative Assessments:

- Choice boards projects
- Skit
- Demonstration
- Journaling
- Conferencing

Suggested Lesson Plan		
Topics	Approximate Timeframe	
Topic #1: Fractions as a form of division	1 day	
Topic #2: Finding Common Denominators	1 day	
Topic #3: Comparing Fractional Numbers		
Lab: RAFT – Fraction Race	2 days	
Possible Quiz #1		
Topic #2: Addition of fractions		
Lab: RAFT – Fraction Action Plus (use positive	2 days	
rational numbers only)		
Topic #3: Subtraction of Fractions	3 days	
Possible Quiz #2	5 uays	
Topic #4: Addition of Mixed Numbers	2 days	
Topic #5: Subtraction of Mixed Numbers	2 dovo	
Possible Quiz #3	3 days	
Topic #6: Multi-Step Word Problems	2 days	
Review & Unit Test	2 days	
Curriculum Resources		

- <u>https://njctl.org/courses/math/5th-grade-math/fraction-operations-part-1-addition-subtraction/</u>
- <u>http://www.raftbayarea.org/ideas/Fraction%20Race.pdf</u>
- <u>http://www.raftbayarea.org/ideas/Fraction%20Action%20Plus.pdf</u>
- Approved Classroom Textbook

#### Lesson Components

#### 21<sup>st</sup> Century Skills

- Financial, Economic, Business, and Entrepreneurial Literacy
- 21<sup>st</sup> Century Themes
- Critical Thinking and Problem Solving
- Communication and Collaboration
- Life and Career Skills

Mathematics Curriculum Unit Plan #7 Grade 5	
Grade 5	
Title: Fraction Operations Part 2	
Grade Level: 5 Approximate Length of Time: 4 weeks	
<b>Unit Summary:</b> This unit will allow students to continue to further their understandings of fractions. They w understand the concepts of multiplication and division of fractions in real world situations.	rill
Learning Targets	
PARCC Major Clusters; Supporting Clusters; Additional Clusters	
Domain: Number and Operations – Fractions	
<b>Cluster:</b> Apply and extend previous understandings of multiplication and division to multiply and divide fractions.	
Standard #: Standard:	
Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction.	
a. Interpret the product $(a/b) \times q$ as a parts of a partition of $q$ into $b$ equal parts; equivalently, as the result of a sequence of operations $a \times q \div b$ .	
b. Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths. Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas.	•
Interpret multiplication as scaling (resizing), by:	
a. 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.	
<b>5.NF.5</b> b. 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 fractior 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.6 Solve real world problems involving multiplication of fractions and mixed numbers, e.g., b using visual fraction models or equations to represent the problem.	y
Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions.	
a. Interpret division of a unit fraction by a non-zero whole number, and compute such quotients.	
5.NF.7 b. Interpret division of a whole number by a unit fraction, and compute such quotients.	
c. Solve real world problems involving division of unit fractions by non-zero whole number and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem	ŝ
Domain: Measurement and Data	
Cluster:	

Represent and	interpret data.	
Standard #:	Standard:	
5.MD.2	Make a line plot to display a data se	t of measurements in fractions of a unit (1/2, 1/4, 1/8). grade to solve problems involving information
Domain: Stand	lards for Math Practice	
Standard #:	Standard:	
MP1	Making sense of problems and perse	evere in solving them.
MP2	Reason abstractly and quantitatively	· · ·
MP3	Construct viable arguments and criti	que the reasoning of others.
MP4	Model with mathematics.	
MP5	Use appropriate tools strategically.	
MP6	Attend to precision.	
MP7	Look for and make use of structure.	
MP8	Look for and express regularity in re	
Unit Essential	Questions:	Unit Enduring Understanding:
• How do ope	rations affect numbers?	The magnitude of numbers affects the
<ul> <li>How are physical relationships</li> </ul>	sical models used to clarify ?	outcome of operations on them.
• How can the used to solve	collection and display of data be problems?	
	using a concrete model. Il create line plots involving fractional u	nits. of Learning
Possible Form	native Assessments:	of Learning
	ponse Questions used throughout unit	
Quizzes		
<ul> <li>Quizzes</li> <li>Homework</li> </ul>		
Exit Slips		
White Board	Participation	
<ul> <li>Peer Review</li> </ul>		
Graded Class		
Possible Sum	mative Assessment:	
Unit Test		
Possible Bend	chmark Assessments:	
Go Math B	enchmark	
Unit Asses	sment	
Possible Alter	native Assessments:	
<ul><li>Choice boa</li><li>Skit</li></ul>	ards - projects	
• Demonstra	ition	
• Journaling		
Conferenci	ng	
	O. marcela d	Lesson Dien
	Suggested	Lesson Plan

Topics	Approximate Timeframe
Topic #1: Multiplying Fractions	
Lab: Multiplication Game	3 days
Possible Quiz #1	
Topic #2: Multiplying Fractions and Whole Numbers	1 day
Lab: Animal Adoption	Tudy
Topic #3: Multiplying with Mixed Numbers	2 days
Possible Quiz #2	2 days
Topic #4: Interpreting Multiplication of Fractions	2 days
Topic #5: Area of fractional side length rectangles	3 days
Possible Quiz #3	5 days
Topic #6: Dividing Unit Fractions by Whole Numbers	1 day
Topic #7: Dividing Whole Numbers by Unit Fractions	2 days
Possible Quiz #4	2 days
Topic #8: Line Plots using fractional measurements	2 days
Possible Quiz #5	z uays
*All including multi-step word problems	(inclusive)
Review & Unit Test	2 days
Curriculum Resources	
• https://njctl.org/courses/math/5th-grade-math/fractio	ns-operations-part-2-multiplication-division
-with-unit-fractions-line-plots/	
Approved Classroom Textbooks	
Lesson Compor	nents
21st Century Skills	
• Financial, Economic, Business, and Entrepreneurial Lite	racy
21st Century Themes	
Critical Thinking and Broblem Solving	

- Critical Thinking and Problem Solving
- Communication and Collaboration
- Life and Career Skills

	Mathematics	
	Grade	
	Unit Pla	in #8
Title: Geometry		
Grade Level: 5		Approximate Length of Time: 3 weeks
Unit Summary: geometry and al		o spatial sense and make the connection between
	Learning	Targets
PARCC 📕 Major (	Clusters; 💶 Supporting Clusters; 으 Addi	tional Clusters
Domain: Geom	etry	
Cluster:		
Graph poin	ts on the coordinate plane to solve rea	I-world and mathematical problems.
Standard #:	Standard:	· · · · · · · · · · · · · · · · · · ·
<mark>5.G.1</mark>	with the intersection of the lines (the and a given point in the plane located coordinates. Understand that the first in the direction of one axis, and the s direction of the second axis, with the	ines, called axes, to define a coordinate system, origin) arranged to coincide with the 0 on each line d by using an ordered pair of numbers, called its t number indicates how far to travel from the origin econd number indicates how far to travel in the convention that the names of the two axes and the and <i>x</i> -coordinate, <i>y</i> -axis and <i>y</i> -coordinate).
<mark>5.G.2</mark>		cal problems by graphing points in the first d interpret coordinate values of points in the context
Cluster: Classify two-dim	nensional figures into categories based	on their properties.
Standard #:	Standard:	
<mark>5.G.3</mark>		to a category of two-dimensional figures also tegory. For example, all rectangles have four right to all squares have four right angles.
<mark>5.G.4</mark>	Classify two-dimensional figures in a	hierarchy based on properties.
Domain: Standa	ards for Math Practice	
Standard #:	Standard:	
MP1	Making sense of problems and perse	vere in solving them.
MP2	Reason abstractly and quantitatively.	
MP3	Construct viable arguments and critic	ue the reasoning of others.
MP4	Model with mathematics.	
MP5	Use appropriate tools strategically.	
MP6	Attend to precision.	
MP7	Look for and make use of structure.	
MP8	Look for and express regularity in rep	peated reasoning.
Unit Essential	Questions:	Unit Enduring Understandings:
<ul><li>geometric lang</li><li>How can geor</li></ul>	ial relationships be described using guage? netric/ algebraic relationships best d and verified?	<ul> <li>Geometric properties can be used to construct geometric figures.</li> <li>Coordinate geometry can be used to represent and verify geometric/algebraic</li> </ul>
Unit Objectives		relationships.

Students will graph points on the coordinate plane	understanding that the first coordinate is the x value
and the second coordinate is the second value.	
<ul> <li>Students will use the coordinate grid to visualize a</li> </ul>	lgebraic relationships.
<ul> <li>Students will categorize and classify geometric fig</li> </ul>	•
	of Learning
Possible Formative Assessments:	
SMART Response Questions used throughout unit	
• Quizzes	
Homework	
• Exit Slips	
White Board Participation	
Peer Review	
Graded Classwork	
Possible Summative Assessment:	
Unit Test	
Possible Benchmark Assessments:	
<ul> <li>Go Math Benchmark</li> </ul>	
Unit Assessment	
Possible Alternative Assessments:	
<ul> <li>Choice boards - projects</li> <li>Skit</li> </ul>	
Demonstration	
Journaling	
Conferencing	
Suggested	esson Plan
Topics	Approximate Timeframe
Topic #1: Polygons	
1 20	
Lab: RAFT – A Honey of a Shape	3 days
Lab: RAFT – A Honey of a Shape Topic #2: Triangles & Quadrilaterals	5 days
· · · · · · · · · · · · · · · · · · ·	
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango	4.5 days
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b>	4.5 days
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b> Topic #3: Coordinate Plane	
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b> Topic #3: Coordinate Plane Topic #4: First Quadrant	4.5 days 2 days
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b> Topic #3: Coordinate Plane Topic #4: First Quadrant Lab: RAFT – Squirreling it Away	4.5 days
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b> Topic #3: Coordinate Plane Topic #4: First Quadrant Lab: RAFT – Squirreling it Away <b>Possible Quiz #2</b>	4.5 days 2 days 3.5 days
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b> Topic #3: Coordinate Plane Topic #4: First Quadrant Lab: RAFT – Squirreling it Away <b>Possible Quiz #2</b> Review & Unit Test	4.5 days 2 days
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b> Topic #3: Coordinate Plane Topic #4: First Quadrant Lab: RAFT – Squirreling it Away <b>Possible Quiz #2</b> Review & Unit Test <b>Curriculum Resources</b>	4.5 days 2 days 3.5 days 2 days
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b> Topic #3: Coordinate Plane Topic #4: First Quadrant Lab: RAFT – Squirreling it Away <b>Possible Quiz #2</b> Review & Unit Test <b>Curriculum Resources</b> • <u>https://njctl.org/courses/math/5th-grade-math/geo</u>	4.5 days 2 days 3.5 days 2 days metry/
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b> Topic #3: Coordinate Plane Topic #4: First Quadrant Lab: RAFT – Squirreling it Away <b>Possible Quiz #2</b> Review & Unit Test <b>Curriculum Resources</b> • <u>https://njctl.org/courses/math/5th-grade-math/geo</u> • <u>http://www.raftbayarea.org/ideas/Honey%20of%2</u>	4.5 days 2 days 3.5 days 2 days 2 days
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b> Topic #3: Coordinate Plane Topic #4: First Quadrant Lab: RAFT – Squirreling it Away <b>Possible Quiz #2</b> Review & Unit Test <b>Curriculum Resources</b> • <u>https://njctl.org/courses/math/5th-grade-math/geo</u> • <u>http://www.raftbayarea.org/ideas/Honey%20of%2</u> • <u>http://www.raftbayarea.org/ideas/Talents%20of%2</u>	4.5 days 2 days 3.5 days 2 days 2 days metry/ Da%20Shape.pdf 20Triangles.pdf
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b> Topic #3: Coordinate Plane Topic #4: First Quadrant Lab: RAFT – Squirreling it Away <b>Possible Quiz #2</b> Review & Unit Test <b>Curriculum Resources</b> <u>https://njctl.org/courses/math/5th-grade-math/geo</u> <u>https://www.raftbayarea.org/ideas/Honey%20of%2</u> <u>http://www.raftbayarea.org/ideas/Talents%20of%2</u>	4.5 days 2 days 3.5 days 2 days <u>2 days</u> <u>metry/</u> <u>Da%20Shape.pdf</u> <u>go.pdf</u>
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b> Topic #3: Coordinate Plane Topic #4: First Quadrant Lab: RAFT – Squirreling it Away <b>Possible Quiz #2</b> Review & Unit Test <b>Curriculum Resources</b> • <u>https://njctl.org/courses/math/5th-grade-math/geo</u> • <u>http://www.raftbayarea.org/ideas/Honey%20of%2</u> • <u>http://www.raftbayarea.org/ideas/Talents%20of%2</u>	4.5 days 2 days 3.5 days 2 days <u>2 days</u> <u>2 days</u> <u>2 days</u> <u>2 days</u> <u>2 days</u>
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b> Topic #3: Coordinate Plane Topic #4: First Quadrant Lab: RAFT – Squirreling it Away <b>Possible Quiz #2</b> Review & Unit Test <b>Curriculum Resources</b> <u>https://njctl.org/courses/math/5th-grade-math/geo</u> <u>http://www.raftbayarea.org/ideas/Talents%20of%2</u> <u>http://www.raftbayarea.org/ideas/Talents%20of%2</u> <u>http://www.raftbayarea.org/ideas/Triangle%20Tan</u> <u>http://www.raftbayarea.org/ideas/Squirreling%20it</u>	4.5 days 2 days 3.5 days 2 days 2 days metry/ Da%20Shape.pdf 20Triangles.pdf 20Triangles.pdf %20Away.pdf
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b> Topic #3: Coordinate Plane Topic #4: First Quadrant Lab: RAFT – Squirreling it Away <b>Possible Quiz #2</b> Review & Unit Test <b>Curriculum Resources</b> • https://njctl.org/courses/math/5th-grade-math/geo • http://www.raftbayarea.org/ideas/Honey%20of%2 • http://www.raftbayarea.org/ideas/Talents%20of%2 • http://www.raftbayarea.org/ideas/Triangle%20Tan • http://www.raftbayarea.org/ideas/Squirreling%20it • Approved Classroom Textbooks	4.5 days 2 days 3.5 days 2 days 2 days metry/ Da%20Shape.pdf 20Triangles.pdf 20Triangles.pdf %20Away.pdf
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b> Topic #3: Coordinate Plane Topic #4: First Quadrant Lab: RAFT – Squirreling it Away <b>Possible Quiz #2</b> Review & Unit Test <b>Curriculum Resources</b> <u>http://njctl.org/courses/math/5th-grade-math/geo</u> <u>http://www.raftbayarea.org/ideas/Talents%200f%2</u> <u>http://www.raftbayarea.org/ideas/Talents%200f%2</u> <u>http://www.raftbayarea.org/ideas/Talents%200f%2</u> <u>http://www.raftbayarea.org/ideas/Triangle%20Tan</u> <u>http://www.raftbayarea.org/ideas/Squirreling%20if</u> <b>Approved Classroom Textbooks</b>	4.5 days 2 days 3.5 days 2 days 2 days metry/ 2 days metry ( 2 days metry ( 2 days metry ( 2 days metry ( 2 days) metry ( 2 days) met
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b> Topic #3: Coordinate Plane Topic #4: First Quadrant Lab: RAFT – Squirreling it Away <b>Possible Quiz #2</b> Review & Unit Test <b>Curriculum Resources</b> • https://njctl.org/courses/math/5th-grade-math/geo • http://www.raftbayarea.org/ideas/Honey%20of%2 • http://www.raftbayarea.org/ideas/Talents%20of%2 • http://www.raftbayarea.org/ideas/Talents%20of%2 • http://www.raftbayarea.org/ideas/Squirreling%20if • Approved Classroom Textbooks	4.5 days 2 days 3.5 days 2 days 2 days metry/ 2 days metry ( 2 days metry ( 2 days metry ( 2 days metry ( 2 days) metry ( 2 days) met
Topic #2: Triangles & Quadrilaterals Lab: RAFT – The Talents of Triangles Lab: RAFT – Triangle Tango <b>Possible Quiz #1</b> Topic #3: Coordinate Plane Topic #4: First Quadrant Lab: RAFT – Squirreling it Away <b>Possible Quiz #2</b> Review & Unit Test <b>Curriculum Resources</b> <u>http://njctl.org/courses/math/5th-grade-math/geo</u> <u>http://www.raftbayarea.org/ideas/Talents%20of%2</u> <u>http://www.raftbayarea.org/ideas/Talents%20of%2</u> <u>http://www.raftbayarea.org/ideas/Talents%20of%2</u> <u>http://www.raftbayarea.org/ideas/Talents%20of%2</u> <u>http://www.raftbayarea.org/ideas/Talents%20of%2</u> <u>http://www.raftbayarea.org/ideas/Squirreling%20if</u> <u>Approved Classroom Textbooks</u>	4.5 days 2 days 3.5 days 2 days 2 days metry/ 2 days metry ( 2 days metry ( 2 days metry ( 2 days metry ( 2 days) metry ( 2 days) met

- Communication and Collaboration
- Life and Career Skills