

North East School District PA Core Curriculum Map

Mathematics

Fourth Grade



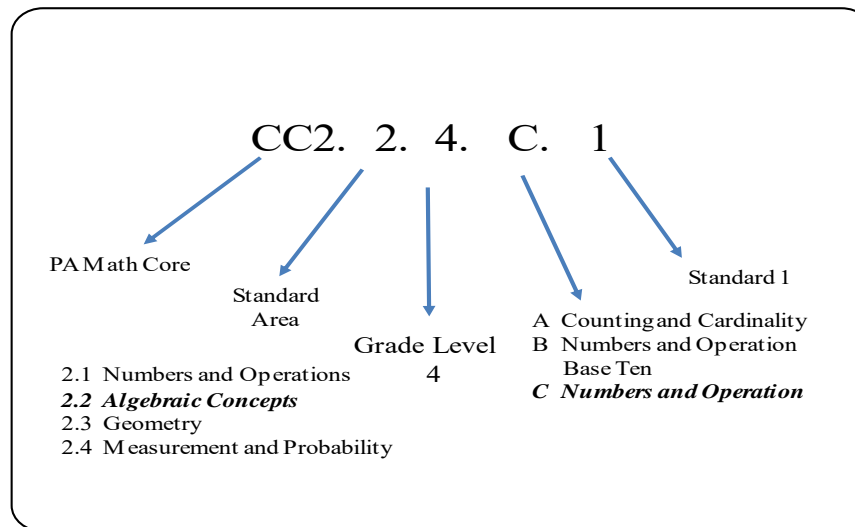
INTRODUCTION

North East School District has adopted Pennsylvania Department of Education's Standards for Mathematical Practice that highlight the effective use of understanding, knowledge, and skills in order to prepare students to be college and/or career ready.

In Grade 4, instructional time should focus on three critical areas: (1) developing understanding and fluency with multi-digit multiplication, and developing understanding of dividing to find quotients involving multi-digit dividends; (2) developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions by whole numbers; (3) understanding that geometric figures can be analyzed and classified based on their properties, such as having parallel sides, perpendicular sides, particular angle measures, and symmetry.

1. Students generalize their understanding of place value to 1,000,000, understanding the relative sizes of numbers in each place. They apply their understanding of models for multiplication (equal-sized groups, arrays, area models), place value, and properties of operations, in particular the distributive property, as they develop, discuss, and use efficient, accurate, and generalizable methods to compute products of multi-digit whole numbers. Depending on the numbers and the context, they select and accurately apply appropriate methods to estimate or mentally calculate products. They develop fluency with efficient procedures for multiplying whole numbers; understand and explain why the procedures work based on place value and properties of operations; and use them to solve problems. Students apply their understanding of models for division, place value, properties of operations, and the relationship of division to multiplication as they develop, discuss, and use efficient, accurate, and generalizable procedures to find quotients involving multi-digit dividends. They select and accurately apply appropriate methods to estimate and mentally calculate quotients, and interpret remainders based upon the context.
2. Students develop understanding of fraction equivalence and operations with fractions. They recognize that two different fractions can be equal (e.g., $15/9 = 5/3$), and they develop methods for generating and recognizing equivalent fractions. Students extend previous understandings about how fractions are built from unit fractions, composing fractions from unit fractions, decomposing fractions into unit fractions, and using the meaning of fractions and the meaning of multiplication to multiply a fraction by a whole number.
3. Students describe, analyze, compare, and classify two-dimensional shapes. Through building, drawing, and analyzing two-dimensional shapes, students deepen their understanding of properties of two-dimensional objects and the use of them to solve problems involving symmetry.

Mathematical Standards: Development and Progression											
	Pre K	K	1	2	3	4	5	6	7	8	HS
2.1 Numbers and Operations	(A) Counting & Cardinality										
		(B) Number and Operations in Base Ten					(D) Ratios and Proportional Relationships			(F) Number and Quantity	
				(C) Number and Operations - Fractions			(E) The Number System				
2.2 Algebraic Concepts	(A) Operations and Algebraic Thinking						(B) Expressions and Equations			(D) Algebra	
										(C) Functions	
2.3 Geometry	(A) Geometry										
2.4 Measurement, Data and Probability	(A) Measurement and Data						(B) Statistics and Probability				



Standards for Mathematical Practices for Fourth Grade

Below are a few examples of how the Standards for Mathematical Practices may be integrated into tasks that students complete:

Mathematic Practices	Explanations and Examples
1. Make sense of problems and persevere in solving them.	Mathematically proficient students in fourth grade know that doing mathematics involves solving problems and discussing how they solved them. Students explain to themselves the meaning of a problem and look for ways to solve it. Fourth graders may use concrete objects or pictures to help them conceptualize and solve problems. They may check their thinking by asking themselves, “Does this make sense?” They listen to the strategies of others and will try different approaches. They often will use another method to check their answers.
2. Reason abstractly and quantitatively.	Mathematically proficient fourth graders should recognize that a number represents a specific quantity. They connect the quantity to written symbols and create a logical representation of the problem at hand, considering both the appropriate units involved and the meaning of quantities. They extend this understanding from whole numbers to their work with fractions and decimals. Students write simple expressions, record calculations with numbers, and represent or round numbers using place value concepts.
3. Construct viable arguments and critique the reasoning of others.	In fourth grade, mathematically proficient students may construct arguments using concrete referents, such as objects, pictures, and drawings. They explain their thinking and make connections between models and equations. They refine their mathematical communication skills as they participate in mathematical discussions involving questions like “How did you get that?” and “Why is that true?” They explain their thinking to others and respond to others’ thinking.
4. Model with mathematics.	Mathematically proficient fourth grade students experiment with representing problem situations in multiple ways including numbers, words (mathematical language), drawing pictures, using objects, making a chart, list, or graph, creating equations, etc. Students need opportunities to connect the different representations and explain the connections. They should be able to use all of these representations as needed. Fourth graders should evaluate their results in the context of the situation and reflect on whether the results make sense.

<p>5. Use appropriate tools strategically.</p>	<p>Mathematically proficient fourth graders consider the available tools (including estimation) when solving a mathematical problem and decide when certain tools might be helpful. For instance, they may use graph paper or a number line to represent and compare decimals and protractors to measure angles. They use other measurement tools to understand the relative size of units within a system and express measurements given in larger units in terms of smaller units.</p>
<p>6. Attend to precision.</p>	<p>As fourth graders develop their mathematical communication skills, they try to use clear and precise language in their discussions with others and in their own reasoning. They are careful about specifying units of measure and state the meaning of the symbols they choose. For instance, they use appropriate labels when creating a line plot.</p>
<p>7. Look for and make use of structure.</p>	<p>In fourth grade, mathematically proficient students look closely to discover a pattern or structure. For instance, students use properties of operations to explain calculations (partial products model). They relate representations of counting problems such as tree diagrams and arrays to the multiplication principal of counting. They generate number or shape patterns that follow a given rule.</p>
<p>8. Look for and express regularity in repeated reasoning.</p>	<p>Students in fourth grade should notice repetitive actions in computation to make generalizations Students use models to explain calculations and understand how algorithms work. They also use models to examine patterns and generate their own algorithms. For example, students use visual fraction models to write equivalent fractions.</p>

MATH



Mathematics 4

GRADE 4

Instructional time will focus on four critical areas: [1] developing understanding and fluency with multi-digit multiplication including familiarity with patterns, factors and multiples, and developing understanding of dividing to find quotients involving multi-digit dividends; [2] developing understanding of fraction/decimal equivalence, addition, and subtraction of fractions with like denominators, and multiplication of fractions by whole numbers; [3] understanding that geometric figures can be analyzed and classified on their properties, such as having parallel sides, perpendicular sides, particular angle measures, and symmetry; [4] solving problems involving length, weight, liquid, mass, volume, time, area, and perimeter.

PA CORE Reporting Categories & Assessment Anchors

Numbers & Operations in Base Ten

M04.A-T.1 → Generalize Place Value Understanding For Multi-Digit Whole Numbers.

M04.A-T.2 → Use Place-Value Understanding/Properties Of Operations To Perform Multi-Digit Arithmetic.

Numbers & Operations - Fractions

M04.A-F.1 → Extend Understanding Of Fraction Equivalence And Ordering.

M04.A-F.2 → Build Fractions From Unit Fractions By Applying And Extending Previous Understandings Of Operations On Whole Numbers.

M04.A-F.3 → Understand Decimal Notation For Fractions And Compare Decimal Fractions.

Operations & Algebraic Thinking

M04.B-O.1 → Use The Four Operations With Whole Numbers To Solve Problems.

M04.B-O.2 → Gain Familiarity With Factors And Multiples.

M04.B-0.3 → Generate And Analyze Patterns.

Geometry

M04.C-G.1 → Draw And Identify Lines & Angles, And Classify Shapes By Properties Of Their Lines & Angles.

Measurement and Data

M04.D-M.1 → Solve Problems Involving Measurement And Conversions Of Measurements From A Larger Unit To A Smaller Unit.

M04.D-M.2 → Represent And Interpret Data.

M04.D-M.3 → Geometric Measurement: Understand Concepts Of Angle; Measure And Create Angles.

All identified strands of PA Core Eligible Content can be found communicated in narrative form through the SAS (Standards Aligned System) Portal. Information related to the Common Core Standards is also readily available via this online resource. The SAS Portal is located at www.pdesas.org.

Grade Four PA CORE Anchor Descriptors

- ★ Apply Place-Value And Numeration Concepts To Compare, Find Equivalencies, And Round.
- ★ Use Operations To Solve Problems.
- ★ Find Equivalencies And Compare Fractions.
- ★ Solve Problems Involving Fractions And Whole Numbers (Straight Computation Or Word Problems).
- ★ Use Operations To Solve Problems Involving Decimals, Including Converting Between Fractions/Decimals.
- ★ Use Numbers And Symbols To Model The Concepts Of Expressions And Equations.
- ★ Develop And Apply Number Theory Concepts To Represent Numbers In Various Ways.
- ★ Recognize, Describe, Extend, Create, And Replicate A Variety Of Patterns.
- ★ List Properties, Classify, Draw, And Identify Geometric Figures In Two Dimensions.
- ★ Solve Problems Involving Length, Weight (Mass), Liquid Volume, Time, Area, And Perimeter.
- ★ Organize, Display, And Answer Questions Based On Data.
- ★ Use Appropriate Tools And Units To Sketch An Angle And Determine Angle Measurements.

MONTH/QUARTER	CONCEPTS	STANDARDS/ ELIGIBLE CONTENT	ASSESSMENTS	RESOURCES
SEPTEMBER	Properties Of Operations	M04.B-O.1.1.1	Formative Assessments Topic Tests & Quizzes Mini-Whiteboard Practice Mad Minute Drills Whiteboard Practice Ticket Out The Door Incentive Chart Tracking Skills Review Games Switch Game Reviews Student-Made Math Reviews Kahoot Activities SmartBoard Activities Benchmark Assessment Study Island BM #1 Diagnostic Assessment NWEA MAP [Fall]	enVision Textbook
	Meaning Of Multiplication	M04.B-O.1.1.2		enVision Workbook
	Essential Questions	M04.B-O.1.1.3		enVision
	<i>How is mathematics used to quantify, compare, represent, and model numbers?</i>	M04.B-O.1.1.4		Supplemental Materials/Resources
	<i>How can mathematics support effective communication?</i>	M04.B-O.3.1.1		Common Core Reference Book
	<i>How are relationships represented mathematically?</i>	M04.B-O.3.1.2		Manipulatives
	<i>How can patterns be used to describe relationships in mathematical situations?</i>	M04.B-O.3.1.3		Mirror, Flip Flops, Empty Pizza Boxes
	Special Quotients	M04.D-M.1.1.2		Picture Cards On The ELMO For Arrays And Distributive Property
	Using Multiplication Facts To Find Division Facts			Collaborated Graph Paper Drawing
	Draw A Picture & Write An Equation			Hundreds Chart
	Repeating Patterns			Colors For Patterns & Skip Counting
	Number Sequences			

	<p>Extending Tables</p> <p>Writing Rules For Situations/Patterns</p> <p>Geometric Patterns</p> <p>Act It Out & Reasoning</p>			<p>Vocabulary Cards</p> <p>Adapted Distributive Property Practice Page</p> <p>Challenge Packet For Distributive Property</p> <p>Act It Out Practice</p>
MONTH/QUARTER	CONCEPTS	STANDARDS/ ELIGIBLE CONTENT	ASSESSMENTS	RESOURCES
<p>OCTOBER</p> <p><u>Essential Questions</u></p> <p><i>How are relationships represented mathematically?</i></p> <p><i>What does it mean to estimate or analyze numerical quantities?</i></p> <p><i>When is it appropriate to estimate versus calculate?</i></p>	<p><u>Place Value</u></p> <p>Representing Numbers</p> <p>Place Value Relationships</p> <p>Comparing Numbers</p> <p>Comparing Greater Numbers</p> <p><u>Properties Of Operations</u></p> <p>Rounding Whole Numbers</p> <p>Making An Organized List</p>	<p>M04.A-T.1.1.1</p> <p>M04.A-T.1.1.2</p> <p>M04.A-T.1.1.3</p> <p>M04.A-T.1.1.4</p> <p>M04.B-O.1.1.3</p> <p>M04.B-O.1.1.4</p>	<p><u>Formative Assessments</u></p> <p>Topic Tests & Quizzes</p> <p>Mini-Whiteboard Practice</p> <p>Mad Minute Drills</p> <p>Whiteboard Practice</p> <p>Ticket Out The Door</p> <p>Incentive Chart Tracking</p> <p>Skills Review Games</p> <p>Switch Game Reviews</p> <p>Student-Made Math Reviews</p> <p>Kahoot Activities</p> <p>SmartBoard Activities</p> <p>Accelerated Math</p> <p>Individualized Student Practice</p>	<p>enVision Textbook</p> <p>enVision Workbook</p> <p>enVision Supplemental Materials/Resources</p> <p>Common Core Reference Book</p> <p>Manipulatives</p> <p>Number Word Spelling List</p>

				Pneumonics For Rounding Numbers Place Value Cards & Flip Charts
<p>NOVEMBER</p> <p><u>Essential Questions</u></p> <p><i>What does it mean to estimate or analyze numerical quantities?</i></p> <p><i>When is it appropriate to estimate versus calculate?</i></p>	<p>Represent/Solve Problems</p> <p>Using Mental Math To Add & Subtract</p> <p>Estimating Sums & Differences Of Whole Numbers</p> <p>Adding Whole Numbers</p> <p>Subtracting Whole Numbers</p> <p>Subtracting Across Zeros</p> <p>Arrays & Multiplying By 10 & 100</p> <p>Multiplying By Multiples Of 10 & 100</p>	<p>M04.A-T.2.1.1</p> <p>M04.A-T.2.1.2</p> <p>M04.A-T.2.1.4</p> <p>M04.B-O.1.1.3</p> <p>M04.B-O.1.1.4</p> <p>M04.D-M.1.1.2</p> <p>M04.D-M.1.1.4</p> <p>M04.D-M.2.1.2</p> <p>M04.D-M.2.1.3</p>	<p>Formative Assessments</p> <p>Topic Tests & Quizzes</p> <p>Mini-Whiteboard Practice</p> <p>Mad Minute Drills</p> <p>Whiteboard Practice</p> <p>Ticket Out The Door</p> <p>Incentive Chart Tracking</p> <p>Skills Review Games</p> <p>Switch Game Reviews</p> <p>Student-Made Math Reviews</p> <p>Kahoot Activities</p> <p>SmartBoard Activities</p> <p>Accelerated Math</p> <p>Individualized Student Practice</p>	<p>enVision Textbook</p> <p>enVision Workbook</p> <p>enVision Supplemental Materials/Resources</p> <p>Common Core Reference Book</p> <p>Manipulatives</p> <p>Student/Parent Help Sheets For Break Apart Mental Math</p> <p>Student/Parent Help Sheets For Compensation</p> <p>Mental Math 3 Strategy Grid</p>

	<p>Number Theory Draw A Picture & Write An Expression</p> <p>Breaking Apart To Multiply</p> <p>Using Mental Math To Multiply</p> <p>Using Rounding To Estimate Reasonableness</p>			SmartBoard Review Switch Game Review Topics 1-5
MONTH/QUARTER	CONCEPTS	STANDARDS/ ELIGIBLE CONTENT	ASSESSMENTS	RESOURCES
<p>DECEMBER</p> <p>Essential Questions</p> <p><i>How is mathematics used to quantify, compare, represent, and model numbers?</i></p> <p><i>How are relationships represented mathematically?</i></p> <p><i>How can patterns be used to describe relationships in mathematical</i></p>	<p>Properties Of Operations Arrays & Using Expanded Form</p> <p>Connecting The Expanded & Standard Algorithms</p> <p>Multiplying 2-Digit By 1-Digit Numbers</p> <p>Multiplying 3-Digit & 4-Digit By 1-Digit Numbers</p> <p>Arrays & Multiplying 2-Digit Numbers By</p>	<p>M04.A-T.2.1.2</p> <p>M04.A-T.2.1.4</p> <p>M04.B-O.1.1.3</p> <p>M04.B-O.1.1.4</p>	<p>Formative Assessments Topic Tests & Quizzes Mini-Whiteboard Practice Mad Minute Drills Whiteboard Practice Ticket Out The Door Incentive Chart Tracking Skills Review Games Switch Game Reviews Student-Made Math Reviews Kahoot Activities SmartBoard Activities</p> <p>Accelerated Math Individualized Student</p>	enVision Textbook enVision Workbook enVision Supplemental Materials/Resources Common Core Reference Book Manipulatives Using Arrays/Tables To Multiply 2-Digit

<p><i>situations?</i></p>	<p>Multiples Of 10</p> <p><u>Represent/Solve Problems</u> Analyze Missing Or Extra Information</p> <p>Multiple-Step Problems</p> <p><u>Number Theory</u> Using Mental Math To Multiply 2-Digit Numbers</p> <p>Using Rounding To Estimate</p> <p>Using Compatible Numbers To Estimate</p>		<p>Practice</p> <p>Xtra Math Assessment Software</p> <p>IXL Math Assessment Software</p> <p><u>Benchmark Assessment</u> Study Island BM #2</p>	<p>Numbers Help Page</p> <p>Pneumonics (Break Apart In Christmas Box & Multiply Using Battleship Moves)</p> <p>Mental Math Grid & Activity Cards</p> <p>Student/Parent Help Sheet For Compatible Numbers</p> <p>Lists Of Multiples</p>
<p>JANUARY</p> <p><u>Essential Questions</u></p> <p><i>What does it mean to estimate or analyze numerical quantities?</i></p> <p><i>When is it appropriate to estimate versus calculate?</i></p>	<p><u>Properties Of Operations</u></p> <p>Arrays & Multiplying 2-Digit Numbers</p> <p>Multiplying 2-Digit Numbers By Multiples Of Ten</p> <p>Multiplying 2-Digit By 2-Digit Numbers</p>	<p>M04.A-T.2.1.2</p> <p>M04.A-T.2.1.3</p> <p>M04.A-T.2.1.4</p> <p>M04.B-O.1.1.3</p> <p>M04.B-O.1.1.4</p> <p>M04.D-M.1.1.4</p>	<p><u>Formative Assessments</u></p> <p>Topic Tests & Quizzes</p> <p>Mini-Whiteboard Practice</p> <p>Mad Minute Drills</p> <p>Whiteboard Practice</p> <p>Ticket Out The Door</p> <p>Incentive Chart Tracking</p> <p>Skills Review Games</p> <p>Switch Game Reviews</p> <p>Student-Made Math Reviews</p> <p>Kahoot Activities</p>	<p>enVision Textbook</p> <p>enVision Workbook</p> <p>enVision Supplemental Materials/Resources</p> <p>Common Core Reference Book</p>

<p><i>How can mathematics support effective communication?</i></p>	<p><u>Represent/Solve Problems</u> Two-Question Problems</p> <p><u>Number Theory</u> Arrays & An Expanded Algorithm</p> <p>Using Mental Math To Divide</p> <p>Estimating Quotients</p> <p>Estimating Quotients For Greater Dividends</p>		<p>SmartBoard Activities</p> <p>Accelerated Math Individualized Student Practice</p> <p>Xtra Math Assessment Software</p> <p>IXL Math Assessment Software</p> <p><u>Diagnostic Assessment</u> NWEA MAP [Winter]</p>	<p>Manipulatives</p> <p>Bingo Cards For 2-Digit Multiplication</p> <p>Post-Holiday Math Refresher Review Game</p>
MONTH/QUARTER	CONCEPTS	STANDARDS/ ELIGIBLE CONTENT	ASSESSMENTS	RESOURCES
<p>FEBRUARY</p> <p><u>Essential Questions</u></p> <p><i>How can mathematics support effective communication?</i></p> <p><i>How are relationships represented</i></p>	<p><u>Represent/Solve Problems</u> Dividing w/ Remainders</p> <p>Multiplication & Division Stories</p> <p>Draw A Picture & Write An Expression</p>	<p>M04.A-T.2.1.3</p> <p>M04.A-F.1.1.1</p> <p>M04.A-F.1.1.2</p> <p>M04.A-F.2.1.3</p> <p>M04.B-O.1.1.4</p>	<p><u>Formative Assessments</u> Topic Tests & Quizzes Mini-Whiteboard Practice Mad Minute Drills Whiteboard Practice Ticket Out The Door Incentive Chart Tracking Skills Review Games Switch Game Reviews Student-Made Math Reviews</p>	<p>enVision Textbook</p> <p>enVision Workbook</p> <p>enVision Supplemental Materials/Resources</p> <p>Common Core Reference Book</p>

<p><i>mathematically?</i></p> <p><i>Why does "WHAT" we measure influence "HOW" we measure?</i></p> <p><i>How precise do measurements and calculations need to be?</i></p>	<p>Division As Repeated Subtraction</p> <p>Using Objects To Divide: Division As Sharing</p> <p>Dividing 2-Digit By 1-Digit Numbers</p> <p>Deciding Where To Begin Dividing</p> <p>Dividing 4-Digit By 1-Digit Numbers</p> <p>Multi-Step Problems</p> <p><u>Number Theory</u></p> <p>Factors</p> <p>Prime/Composite Numbers</p> <p>Multiples</p> <p><u>Fractions</u></p> <p>Equivalent Fractions</p> <p>Number Lines & Equivalent Fractions</p> <p>Comparing Fractions</p>	<p>M04.D-M.1.1.1</p>	<p>Kahoot Activities</p> <p>SmartBoard Activities</p> <p>Accelerated Math Individualized Student Practice</p> <p>PSSA Practice Prep</p> <p>Xtra Math Assessment Software</p> <p>IXL Math Assessment Software</p>	<p>Manipulatives</p> <p>Pneumonics/Help Sheet For Long Division: [Does McDonald's Sell Cheeseburgers Raw?]</p> <p>Graph Paper To Assist W/ Long Division</p> <p>Help Sheet/Rules Of Divisibility</p> <p>Big G Charts, Gallon Robot, Conversion Charts</p> <p>Pneumonics/Help Sheet: [Bigger To Smaller Means Multiply/Smaller To Bigger Means Divide]</p>
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	Ordering Fractions Writing To Explain Measurement Customary Units Of Length Customary Units Of Capacity Units Of Weight Changing Customary Units Writing To Explain Using Metric Units Of Length Metric Units Of Capacity Units Of Mass/Units Of Time Changing Metric Units Working Backward			
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<p>MARCH</p> <p><u>Essential Questions</u></p> <p><i>What makes a tool or strategy appropriate for a given task?</i></p> <p><i>How can data be organized and represented to provide insight into the relationship between quantities?</i></p> <p><i>How does the type of data influence the choice of display?</i></p> <p><i>How can probability and data analysis be used to make predictions?</i></p>	<p><u>Fractions</u></p> <p>Modeling Addition Of Fractions</p> <p>Adding Fractions w/ Like Denominators</p> <p>Modeling Subtraction Of Fractions</p> <p>Subtracting Fractions w/ Like Denominators</p> <p>Adding/Subtracting On The Number Line</p> <p>Improper Fractions And Mixed Numbers</p> <p>Modeling Addition & Subtraction Of Mixed Numbers</p> <p>Adding Mixed Numbers</p> <p>Subtracting Mixed Numbers</p> <p>Composing/Decomposing Fractions</p>	<p>M04.A-F.2.1.1</p> <p>M04.A-F.2.1.2</p> <p>M04.A-F.2.1.3</p> <p>M04.A-F.2.1.4</p> <p>M04.A-F.2.1.5</p> <p>M04.A-F.2.1.6</p> <p>M04.A-F.2.1.7</p> <p>M04.A-F.3.1.1</p> <p>M04.A-F.3.1.2</p> <p>M04.A-F.3.1.3</p> <p>M04.B-O.1.1.4</p> <p>M04.D-M.2.1.1</p> <p>M04.D-M.2.1.2</p>	<p><u>Formative Assessments</u></p> <p>Topic Tests & Quizzes</p> <p>Mini-Whiteboard Practice</p> <p>Mad Minute Drills</p> <p>Whiteboard Practice</p> <p>Ticket Out The Door</p> <p>Incentive Chart Tracking</p> <p>Skills Review Games</p> <p>Switch Game Reviews</p> <p>Student-Made Math Reviews</p> <p>Kahoot Activities</p> <p>SmartBoard Activities</p> <p>Accelerated Math</p> <p>Individualized Student Practice</p> <p>PSSA Practice Prep</p> <p>Xtra Math Assessment Software</p> <p>IXL Math Assessment Software</p> <p><u>Benchmark Assessment</u></p> <p>Study Island BM #3</p>	<p>enVision Textbook</p> <p>enVision Workbook</p> <p>enVision Supplemental Materials/Resources</p> <p>Common Core Reference Book</p> <p>Manipulatives</p> <p>Ordering Fraction Game/Cards</p> <p>Student/Parent Help Sheet For Adding & Subtracting Mixed Numbers</p> <p>Pneumonics For Borrowing Fractions [Whole Pizza, Open The Box, Put Pieces On The Buffet]</p> <p>Decimal Beachball</p> <p>Student/Parent Help</p>
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	<p>Fractions As Multiples Of Unit Fractions: Use Models</p> <p>Multiplying A Fraction By A Whole #: Use Models</p> <p>Multiplying A Fraction By A Whole #: Use Symbols</p> <p>Decimals Equivalent Decimals & Fractions</p> <p>Decimals & Fractions On A Number Line</p> <p>Decimal Place Value</p> <p>Comparing Decimals</p> <p>Using Money To Understand Decimals</p> <p>Draw A Picture</p> <p>Measurement Solving Measurement Related Problems</p>			<p>Sheet: Easy Steps For Turning Fractions Into Decimals</p> <p>Area/Perimeter Songs</p> <p>Scavenger Hunt Game</p>
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	<p>Data Displays Making Line Plots</p> <p>Solving Problems Involving Line Plots</p> <p>Solving Perimeter/Area Related Problems</p> <p>Solving A Simple Problem/Making A Table</p> <p>Solving Problems Involving Money</p>			
MONTH/QUARTER	CONCEPTS	STANDARDS/ ELIGIBLE CONTENT	ASSESSMENTS	RESOURCES
<p>APRIL</p> <p>Essential Questions</p> <p><i>How are spatial relationships, including shape and dimension, used to draw, construct, model, and represent real situations or solve problems?</i></p>	<p>Geometric Shapes And Figures Points, Lines, & Planes</p> <p>Line Segments, Rays, & Angles</p> <p>Polygons</p> <p>Triangles/Quadrilaterals</p> <p>Line Symmetry</p>	<p>M04.C-G.1.1.1</p> <p>M04.C-G.1.1.2</p> <p>M04.C-G.1.1.3</p> <p>M04.D-M.2.1.3</p>	<p>Formative Assessments Topic Tests & Quizzes Mini-Whiteboard Practice Mad Minute Drills Whiteboard Practice Ticket Out The Door Incentive Chart Tracking Skills Review Games Switch Game Reviews Student-Made Math Reviews Kahoot Activities SmartBoard Activities</p>	<p>enVision Textbook</p> <p>enVision Workbook</p> <p>enVision Supplemental Materials/Resources</p> <p>Common Core Reference Book</p> <p>Manipulatives</p>

<p><i>How can the applications of the attributes of geometric shapes support mathematical reasoning and problem solving?</i></p> <p><i>How can geometric properties and theorems be used to describe, model, and analyze situations?</i></p>	<p>Measurement Measuring w/ Unit Angles Measuring Angles Adding/Subtracting Angle Measures Making & Testing Generalizations</p>		<p>Accelerated Math Individualized Student Practice</p> <p>PSSA Practice Prep</p> <p>Xtra Math Assessment Software</p> <p>IXL Math Assessment Software</p> <p>Summative Assessment Grade 4 Mathematics PSSA</p>	<p>Angle Arm Movements</p> <p>Measuring Angles Math Game</p> <p>Geometric Art Picture</p> <p>Student/Teacher Help Sheets</p> <p>Reference Sheets On All Special Polygons</p>
<p>MAY</p> <p>Essential Questions</p> <p><i>How can mathematics support effective communication?</i></p> <p><i>What makes a tool or strategy appropriate for a given task?</i></p> <p><i>How can data be</i></p>	<p>Measurement Solving Problems w/ Converting Measurement Units</p> <p>Data Displays Graphing</p> <p>Line Plots/Bar Graphs</p> <p>Understanding Concepts Of Angles</p>	<p>M04.D-M.1.1.1</p> <p>M04.D-M.1.1.2</p> <p>M04.D-M.1.1.3</p> <p>M04.D-M.1.1.4</p> <p>M04.D-M.3.1.1</p> <p>M04.D-M.3.1.2</p>	<p>Formative Assessments Topic Tests & Quizzes Mini-Whiteboard Practice Mad Minute Drills Whiteboard Practice Ticket Out The Door Incentive Chart Tracking Skills Review Games Switch Game Reviews Student-Made Math Reviews Kahoot Activities SmartBoard Activities</p>	<p>enVision Textbook</p> <p>enVision Workbook</p> <p>enVision Supplemental Materials/Resources</p> <p>Common Core Reference Book</p> <p>Manipulatives</p>

<p><i>organized and represented to provide insight into the relationship between quantities?</i></p>	<p>Measuring/Creating Angles</p>	<p>M04.D-M.2.1.1 M04.D-M.2.1.2 M04.D-M.2.1.3</p>	<p>Accelerated Math Individualized Student Practice Xtra Math Assessment Software IXL Math Assessment Software <u>Diagnostic Assessment</u> NWEA MAP [Spring]</p>	
<p>MONTH/QUARTER</p>	<p>CONCEPTS</p>	<p>STANDARDS/ ELIGIBLE CONTENT</p>	<p>ASSESSMENTS</p>	<p>RESOURCES</p>
<p>JUNE</p> <p><u>Essential Question</u></p> <p><i>How can patterns be used to describe relationships in mathematical situations?</i></p>	<p><u>Qwirkle Tournament</u></p> <p>Patterns, Sequencing, & Logical Reasoning</p>	<p>M04.B-0.3.1.1 M04.B-0.3.1.2 M04.B-0.3.1.3</p>		<p>Qwirkle Game Tally Sheets Tournament Brackets</p>