

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 1: Use the Four Operations with Whole Numbers to Solve Problems	-How can you compare numbers using multiplication? (4.OA.1) -How can you model a multiplicative comparison? (4.OA.1)	<i>Students will understand that . . .</i> 4.OA.1 -Proficiency with basic facts aids estimation and computation of larger and smaller numbers. -Any given word problems can be represented using an equation. -That a multiplicative comparison is a situation in which one quantity is multiplied by a specific number to get another quantity.	<i>Students will be able to...</i> 4.OA.1 -Write multiplication equations from multiplicative comparisons given in words. -Describe multiplication equations in words. -Identify and explain which quantity is being multiplied and which number tells how many times.	-Slate Drills -Teacher Observation -Quiz -Teacher-Made Unit Assessment -State Model Unit Assessment -Performance Assessment - Practice Pages -Games on Eboard -Accelerated Math Program -Reflex Math (Online Program) -Renaissance Learning Star Math	4.OA.1: Interpret a multiplication equation as a comparison, e.g., interpret $35 = 5 * 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations.

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
<p>Unit 1: Use the Four Operations with Whole Numbers to Solve Problems</p>	<p>-How can multiplication be used to answer questions? (4.OA.2)</p> <p>-How can division be used to answer questions? (4.OA.2)</p> <p>-How can number sentences help you solve word problems? (4.OA.2)</p> <p>-How do you decide which strategy would be the best one to use for solving a given word problem? (4.OA.2)</p> <p>-How do you determine the correct operation(s) needed to solve a problem? (4.OA.2)</p> <p>-What can happen if you choose the wrong operation(s) to solve a problem? (4.OA.2)</p> <p>-How can a model help you solve a comparison problem? (4.OA.2)</p>	<p><i>Students will understand that . . .</i></p> <p>4.OA.2</p> <p>-Comparative situations can be solved by writing equations with an unknown variable.</p> <p>-Basic facts and estimation are used to understand multiplication.</p>	<p><i>Students will be able to...</i></p> <p>4.OA.2</p> <p>-Write an equation to identify the arithmetic operation written in a word problem (without solving)</p> <p>-Distinguish multiplicative comparisons from additive comparisons when reading a word problem.</p> <p>-Add or subtract to solve word problems.</p> <p>-Multiply or divide to solve word problems involving multiplicative comparisons.</p> <p>-Use drawings, equations, and symbols to solve multiplication and division problems.</p> <p>-Solve problems with an unknown product, unknown group size,</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.OA.2:</p> <p>Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison</p>

Curriculum Map
4th Grade
Advanced Math

			and unknown number of groups.		
--	--	--	-------------------------------	--	--

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
<p>Unit 1: Use the Four Operations with Whole Numbers to Solve Problems</p>	<p>-How does the position of a digit in a number affect its value? (4.NBT.1)</p> <p>-How can you describe the value of a digit? (4.NBT.1)</p> <p>-How does place value help us understand numbers? (4.NBT.1)</p> <p>-How can you rename a whole number? (4.NBT.1)</p> <p>-How are place value patterns repeated in numbers? (4.NBT.1)</p> <p>-What if there was no place value? (4.NBT.1)</p> <p>-What is the difference between a digit and a number? (4.NBT.1)</p>	<p><i>Students will understand that . . .</i></p> <p>4.NBT.1</p> <p>-Understanding the base-ten numeration system improves a sense of the size or magnitude of numbers, and strengthens estimation and computational skills.</p> <p>-Place value is based on groups of ten.</p> <p>-Seven digit numbers are composed of millions, hundred thousands, ten thousands, thousands, hundreds, tens, and ones.</p>	<p><i>Students will be able to...</i></p> <p>4.NBT.1</p> <p>-Explain the quantitative relationship between places of a multi-digit whole number up to one million when moving right to left.</p> <p>-Multiply and divide by multiples of ten to change the value of a digit.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.NBT.1:</p> <p>Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.</p>

*Curriculum Map
4th Grade
Advanced Math*

Unit	Essential Questions	Content	Skills	Assessment	Standard
<p>Unit 1: Use the Four Operations with Whole Numbers to Solve Problems</p>	<p>-How can you represent the same number in different ways? (4.NBT.2)</p> <p>-How can place value be used to help compare and order numbers? (4.NBT.2)</p> <p>-How can you compare and order numbers? (4.NBT.2)</p>	<p><i>Students will understand that . . .</i></p> <p>4.NBT.2</p> <p>-The placement of a digit dictates its value, how it is read, written, and compared.</p>	<p><i>Students will be able to...</i></p> <p>4.NBT.2</p> <p>-Compare numbers using $>$, $=$, or $<$ for two multi digit numbers up to one million(presented as base-10 numerals, number names, or expanded form)</p> <p>-Read and write numbers using standard form, word form, and expanded notation sing 1-7 digits.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.NBT.2:</p> <p>Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons.</p>

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 1: Use the Four Operations with Whole Numbers to Solve Problems	-When is estimation useful? (4.NBT.3) -How can you round numbers? (4.NBT.3)	<i>Students will understand that . . .</i> 4.NBT.3 -They must use place value and number sense in order to evaluate their answers when they round or estimate solutions.	<i>Students will be able to...</i> 4.NBT.3 -Round multi-digit whole numbers up to one million to any place. -Explain the process and apply to real world situations.	-Slate Drills -Teacher Observation -Quiz -Teacher-Made Unit Assessment -State Model Unit Assessment -Performance Assessment - Practice Pages -Games on Eboard -Accelerated Math Program -Reflex Math (Online Program) -Renaissance Learning Star Math	4.NBT.3: Use place value understanding to round multi-digit whole numbers to any place

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 1: Use the Four Operations with Whole Numbers to Solve Problems	<p>-What are efficient methods for finding sums? (4.NBT.4)</p> <p>-How can you add whole numbers? (4.NBT.4)</p> <p>-What are efficient methods for finding differences? (4.NBT.4)</p> <p>-How can you subtract whole numbers? (4.NBT.4)</p> <p>-How can place value properties aid computation? (4.NBT.4)</p>	<p><i>Students will understand that . . .</i></p> <p>4.NTB.4</p> <p>-Computation involves taking apart and combining numbers using a variety of approaches.</p> <p>-Fluency with basic addition and subtraction facts will aid in estimation and computation of larger numbers.</p> <p>-The standard algorithm for addition is based in the understanding of place value.</p>	<p><i>Students will be able to...</i></p> <p>4.NBT.4</p> <p>-Use standard algorithm to add multi-digit numbers</p> <p>-Use standard algorithm to subtract multi-digit numbers</p> <p>-Explain why algorithm for addition or subtraction works using knowledge of place value.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.NBT.4:</p> <p>Fluently add and subtract multi-digit whole numbers using the standard algorithm</p>

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 1: <i>Use the Four Operations with Whole Numbers to Solve Problems</i>	5.NBT.1: How does the position of a number affect its value?	<i>Students will understand that . . .</i> 5.NBT.1 Understanding the base-ten numeration system improves a sense of the size or magnitude of numbers, and strengthens estimation and computational skills. Place value is based on groups of ten. Knowledge of the place value system will enable them to write and interpret numerical expressions.	<i>Students will be able to...</i> 5.NBT.1 -Explain the "ten times" or 1/10 relationships for place values in multi-digit numbers moving right or left across the places. -Justify and explain conclusions made about place value relationships in multi-digit numbers. -Communicate precisely the place value relationships in multi-digit numbers. -Look for and discern a pattern involving place value.	-Slate Drills -Teacher Observation -Quiz -Teacher-Made Unit Assessment -State Model Unit Assessment -Performance Assessment - Practice Pages -Games on Eboard -Accelerated Math Program -Reflex Math (Online Program) -Renaissance Learning Star Math	5.NBT.1: Recognize that in a multi-digit number, a digit in ones place represents 10 as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.

*Curriculum Map
4th Grade
Advanced Math*

Unit	Essential Questions	Content	Skills	Assessment	Standard
<p>Unit 1: <i>Use the Four Operations with Whole Numbers to Solve Problems</i></p>	<p>5.NBT.2</p> <p>What changes the value of a digit?</p> <p>What pattern is our number system based on?</p> <p>What happens when we multiply a number by powers of ten?</p>	<p><i>Students will understand that . . .</i></p> <p>5.NBT.2</p> <p>Our place value system is based on the power of ten patterns.</p> <p>Patterns are created when we multiply a number by powers of ten.</p>	<p><i>Students will be able to...</i></p> <p>5.NBT.2</p> <p>-Understand and make sense of the quantities of zeros and the placement of the decimal point in a product or quotient when a number is multiplied or divided by a power of 10</p> <p>-Make conjectures and build logical statements involving the patterns of the number of zeros and the placement of the decimal point when a number is multiplied or divided by a power of 10.</p> <p>--Look for and discern a pattern involving the</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>5.NBT.2:</p> <p>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.</p>

Curriculum Map
4th Grade
Advanced Math

			number of zeros and the placement of the decimal point when a number is divided or multiplied by a power of 10.		
--	--	--	---	--	--

*Curriculum Map
4th Grade
Advanced Math*

Unit	Essential Questions	Content	Skills	Assessment	Standard
<p>Unit 1: <i>Use the Four Operations with Whole Numbers to Solve Problems</i></p>	<p>5.NBT.3</p> <p>What are three ways you can express decimals?</p>	<p><i>Students will understand that . . .</i></p> <p>5.NBT.3</p> <p>You can read and write decimals using base-ten numerals, number names, and expanded form.</p>	<p><i>Students will be able to...</i></p> <p>5.NBT.3</p> <p>-Understand and make sense of the relationship of decimals to the thousandths and the quantities they represent.</p> <p>Read and write decimals to the thousandths using numerals, number names, and expanded form</p> <p>-State the meaning of the <, >, or = symbols when comparing decimals to the thousandths place.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>5.NBT.3</p> <p>Read, write, and compare decimals to thousandths.</p> <p>a. Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., $347.392 = 3 \times 100 + 4 \times 10 + 7 \times 1 + 3 \times (1/10) + 9 \times (1/100) + 2 \times (1/1000)$.</p> <p>b. Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.</p>

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 1: <i>Use the Four Operations with Whole Numbers to Solve Problems</i>	5.NBT.4 How do you use place value to round a decimal?	<i>Students will understand that . . .</i> 5.NBT.4 Place value understanding is necessary to round a decimal.	<i>Students will be able to...</i> -Understand and make sense of the quantity when rounding decimals to any place.	-Slate Drills -Teacher Observation -Quiz -Teacher-Made Unit Assessment -State Model Unit Assessment -Performance Assessment - Practice Pages -Games on Eboard -Accelerated Math Program -Reflex Math (Online Program) -Renaissance Learning Star Math	5.NBT.4: Use place value understanding to round decimals to any place.

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
<p>Unit 1: Use the Four Operations with Whole Numbers to Solve Problems</p>	<p>5.OA.1</p> <p>What can affect the relationship between numbers?</p> <p>How are our number system and its symbols relevant to your everyday life?</p> <p>Why is it important to follow the order of operations?</p>	<p><i>Students will understand that . . .</i></p> <p>5.OA.1</p> <p>The symbolic language of algebra is used to communicate and generalize the patterns in mathematics.</p> <p>The placement of mathematical symbols determines how an expression should be evaluated.</p> <p>Solutions should be analyzed for reasonableness.</p>	<p><i>Students will be able to...</i></p> <p>-Know and flexibly apply the properties of operations to evaluate numerical expressions with parentheses, brackets and braces.</p> <p>-Look for and discern a pattern or structure when evaluating numerical expressions with parentheses, brackets, and braces</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>5.OA.1:</p> <p>Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols</p>

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 1: <i>Use the Four Operations with Whole Numbers to Solve Problems</i>	5.OA.2 What is a mathematical expression? How can you represent a mathematical expression?	<i>Students will understand that . . .</i> 5.OA.2 Words and/or symbols can be used to describe numerical expressions.	<i>Students will be able to...</i> -Explain the correspondences between expressions represented in word problems or scenarios and numerical expressions. -Understand and make sense of quantities and their relationships to one another in numerical expressions and numerical expressions represented in word problems. -Apply previously learned concepts about numerical expressions and word problems in order to solve problems that involve both.	-Slate Drills -Teacher Observation -Quiz -Teacher-Made Unit Assessment -State Model Unit Assessment -Performance Assessment - Practice Pages -Games on Eboard -Accelerated Math Program -Reflex Math (Online Program) -Renaissance Learning Star Math	5.OA.2: Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them. For example, express the calculation “add 8 and 7, then multiply by 2” as $2 \times (8 + 7)$. Recognize that $3 \times (18932 + 921)$ is three times as large as $18932 + 921$, without having to calculate the indicated sum or product.

Curriculum Map
4th Grade
Advanced Math

--	--	--	--	--	--

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 2: Compute with Multi-digit Whole Numbers and Define Equivalent Fractions	<p>-How can you use a model to help you solve a multistep word problem? (4.OA.3)</p> <p>-How can you represent and solve multistep problems using equations? (4.OA.3)</p> <p>-How can you use remainders in division problems? (4.OA.3)</p> <p>-How do remainders affect your answers? (4.OA.3)</p> <p>-What questions can be answered using addition and subtraction? (4.OA.3)</p> <p>-How can multiplication be used to answer questions? (4.OA.3)</p> <p>-How can division be used to answer questions? (4.OA.3)</p>	<p><i>Students will understand that . . .</i></p> <p>4.OA.3</p> <p>-Addition, subtraction, multiplication, and division can be used to solve multistep word problems.</p> <p>-A remainder needs to be appropriately interpreted within the context of a word problem.</p> <p>-Estimation is a way to get an approximate answer.</p> <p>-That estimating, rounding, compatible numbers should be used to assess the reasonableness of an answer.</p>	<p><i>Students will be able to...</i></p> <p>4.OA.3</p> <p>-To use and discuss various strategies for solving multistep word problems.</p> <p>-Solve multistep word problems using +,-</p> <p>-Solve multistep word problems using x and / by using equations with a letter standing for the unknown quantity</p> <p>-Use mental computation to check the reasonableness of an answer</p> <p>-Use estimation strategies including rounding to check the reasonableness of an answer</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.OA.3:</p> <p>Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.</p>

*Curriculum Map
4th Grade
Advanced Math*

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 2: Compute with Multi-digit Whole Numbers and Define Equivalent Fractions	<p>-How can you use models to find factors? (4.OA.4)</p> <p>-How can you tell whether one number is a factor of another number? (4.OA.4)</p> <p>-How are factors and multiples related? (4.OA.4)</p> <p>-How can you tell whether a number is prime or composite? (4.OA.4)</p>	<p><i>Students will understand that . . .</i></p> <p>4.OA.4</p> <p>-An array can be used to find factor pairs of a given number.</p> <p>-Numbers can be classified according to their factors.</p> <p>-Numbers can be prime or composite.</p>	<p><i>Students will be able to...</i></p> <p>4.OA.4</p> <p>-Find all factor pairs for a whole number up to 100 and determine whether it is a multiple of a given 1 digit whole number.</p> <p>-Explain the difference between multiples and factors.</p> <p>-Name all multiples for a given number 1-100.</p> <p>-Name all factors for a given number 1-100.</p> <p>-Explain the difference between a prime and composite number.</p> <p>-Determine if a number between 1 and 100 is a prime or</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.OA.4:</p> <p>Find all factor pairs for a whole number in the range 1-100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1-100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1-100 is prime or composite.</p>

Curriculum Map
4th Grade
Advanced Math

			composite number.		
--	--	--	-------------------	--	--

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 2: Compute with Multi-digit Whole Numbers and Define Equivalent Fractions	<p>-How can you estimate products by rounding and determine if exact answers are reasonable? (4.NBT.5)</p> <p>-How can you use mental math and properties to help you multiply numbers? (4.NBT.5)</p> <p>-What strategies can you use to multiply by tens? (4.NBT.5)</p> <p>-What strategies can you use to estimate products? (4.NBT.5)</p> <p>-What are efficient methods for finding products? (4.NBT.5)</p>	<p><i>Students will understand that . . .</i></p> <p>4.NBT.5</p> <p>-That multiplication is repeated addition.</p> <p>-There are a variety of methods to solve multi-digit multiplication problems based on the properties of place value and distributive property.</p>	<p><i>Students will be able to...</i></p> <p>4.NBT.5</p> <p>-Use strategies to multiply multi-digit numbers, and explain the answer using equations, rectangular arrays, and area models (up to 4-digits by 1 digit or 2 digits by 2 digits).</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.NBT.5:</p> <p>Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</p>

*Curriculum Map
4th Grade
Advanced Math*

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 2: Compute with Multi-digit Whole Numbers and Define Equivalent Fractions	<p>-Can you use multiples to estimate quotients? (4.NBT.6)</p> <p>-Can you use models to divide whole numbers that do not divide evenly? (4.NBT.6)</p> <p>-What are efficient methods and strategies for finding quotients? (4.NBT.6)</p>	<p><i>Students will understand that . . .</i></p> <p>4.NBT.6</p> <p>-There are a variety of methods to solve division problems based on the properties of place value, operations, and inverse operations.</p> <p>-That multiplication and division are inverse operations.</p>	<p><i>Students will be able to...</i></p> <p>4.NBT.6</p> <p>-Divide using a four digit dividend and a 1 digit divisor.</p> <p>-Explain and justify their solutions and method they used to find the quotient</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.NBT.6:</p> <p>Find whole-number quotients and remainders with up to four-digit dividends and one-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.</p>

*Curriculum Map
4th Grade
Advanced Math*

Unit	Essential Questions	Content	Skills	Assessment	Standard
<p>Unit 2: Compute with Multi-digit Whole Numbers and Define Equivalent Fractions</p>	<p>-How can a fraction look different but still be the same? (4.NF.1)</p> <p>-How can you use models to show equivalent fractions? (4.NF.1)</p> <p>-How can you use multiplication to find equivalent fractions? (4.NF.1)</p>	<p><i>Students will understand that . . .</i></p> <p>4.NF.1</p> <p>-Two fractions can look different but be equivalent.</p> <p>-Fractions can be explained using visual models</p> <p>-Fractions are representations of parts to a whole.</p> <p>-Fractions are comprised of equal sized pieces.</p>	<p><i>Students will be able to...</i></p> <p>4.NF.1</p> <p>-Recognize equivalent fractions</p> <p>-Generate equivalent fractions</p> <p>-Explain why fractions are equivalent using visual fraction models</p> <p>-Draw models using fractions.</p> <p>-Draw models to show equivalent fractions with unlike denominators.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.NF.1:</p> <p>Explain why a fraction a/b is equivalent to a fraction $(n * a)/(n * b)$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions.</p>

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 2: Compute with Multi-digit Whole Numbers and Define Equivalent Fractions	<p>-How can you write a pair of fractions as fractions with a common denominator? (4.NF.2)</p> <p>-How can you use benchmarks to compare fractions? (4.NF.2)</p> <p>-How can you compare fractions? (4.NF.2)</p> <p>-How can you order fractions? (4.NF.2)</p> <p>-How can I use models to help compare fractions? (4.NF.2)</p> <p>- What patterns do you notice among numerators and denominators of equivalent fractions? (4.NF.2)</p> <p>-How do fractions represent parts of a whole? (4.NF.2)</p>	<p><i>Students will understand that . . .</i></p> <p>4.NF.2</p> <p>-Fractions can be compared by using the symbols $<$, $>$, $=$.</p>	<p><i>Students will be able to...</i></p> <p>4.NF.2</p> <p>-Compare and order fractions with different numerators</p> <p>-Compare and order fractions with different denominators</p> <p>-Compare 2 fractions with different numerators and denominators</p> <p>-Compare and order fractions by using a visual model</p> <p>-Compare two fractions by creating common denominators</p> <p>-Record fraction comparisons with</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.NF.2: Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as $\frac{1}{2}$. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual fraction model.</p>

Curriculum Map
4th Grade
Advanced Math

	<p>- How do you use fractions in everyday life? (4.NF.2)</p> <p>-How does finding equivalent fractions help you compare fractions? (4.NF.2)</p>		<p>symbols , > , = , <</p> <p>-Use a visual model to justify fraction comparisons</p> <p>-Consider the size of the whole when comparing fractions e.g. $\frac{1}{2}$ and $\frac{1}{8}$ of a medium pizza are different than $\frac{1}{2}$ of a medium pizza and $\frac{1}{8}$ of a large pizza</p>		
--	---	--	--	--	--

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
<p>Unit 2: Compute with Multi-digit Whole Numbers and Define Equivalent Fractions</p>	<p>5.NBT.5</p> <p>What makes a computational strategy both effective and efficient?</p>	<p><i>Students will understand that .</i></p> <p>5.NBT.5</p> <p>Computation involves taking apart and combining numbers using a variety of approaches.</p> <p>-Fluency with basic multiplication facts will aid in estimation and computation of larger numbers.</p> <p>-The standard algorithm for multiplication is based in the understanding of place value.</p>	<p><i>Students will be able to...</i></p> <p>5.NBT.5</p> <p>Multiply multi-digit whole numbers using the standard algorithm.</p> <p>Look for and discern a pattern when using the standard algorithm to multiply 3-digit whole numbers by 1-digit whole numbers.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>5.NBT.5</p> <p>Use the standard algorithm to multiply 3-digit whole numbers by 1-digit whole numbers.</p>

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 2: <i>Compute with Multi-digit Whole Numbers and Define Equivalent Fractions</i>	5.NBT.6 What are the ways to find a quotient with 2-digit divisor?	<i>Students will understand that .</i> 5.NBT.6 There are multiple ways to find a quotient.	<i>Students will be able to...</i> 5.NBT.6 Divide whole numbers with up to 4-digit dividends and 2-digit divisors. Illustrate and explain a quotient through equations, rectangular arrays, and/or area models. Look for and discern a pattern when dividing 4-digit dividends and 2-digit divisors. Explain the relationship among the divisor, dividend, and quotient.	-Slate Drills -Teacher Observation -Quiz -Teacher-Made Unit Assessment -State Model Unit Assessment -Performance Assessment - Practice Pages -Games on Eboard -Accelerated Math Program -Reflex Math (Online Program) -Renaissance Learning Star Math	5.NBT.6 Calculate whole numbers quotients with 4-digit dividends and 2-digit divisors and explain answers with equations, rectangular arrays, and area models.

Curriculum Map
4th Grade
Advanced Math

--	--	--	--	--	--

*Curriculum Map
4th Grade
Advanced Math*

Unit	Essential Questions	Content	Skills	Assessment	Standard
<p>Unit 2: Compute with Multi-digit Whole Numbers and Define Equivalent Fractions</p>	<p>How do we solve problems with whole numbers and decimals?</p> <p>What are some of the ways you can add, subtract, multiply and divide decimals?</p>	<p><i>Students will understand that .</i></p> <p>5.NBT.7</p> <p>There are multiple ways to add, subtract, multiply and divide decimals.</p>	<p><i>Students will be able to...</i></p> <p>5.NBT.7</p> <p>Add, subtract, and multiply decimals to the hundredths place.</p> <p>Divide decimals (whole number divisors and dividends to hundredths place.</p> <p>Explain method used to solve problems in all four operations.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>5.NBT.7</p> <p>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.</p>

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 3: Properties of Operations with Multi-Digit Arithmetic, Fraction Addition, and Subtraction	<p>-How can you use a model to help you solve a multistep word problem? (4.OA.3)</p> <p>-How can you represent and solve multistep problems using equations? (4.OA.3)</p> <p>-How can you use remainders in division problems? (4.OA.3)</p> <p>-How do remainders affect your answers? (4.OA.3)</p> <p>-What questions can be answered using addition and subtraction? (4.OA.3)</p> <p>-How can multiplication be used to answer questions? (4.OA.3)</p> <p>-How can division be used to answer</p>	<p><i>Students will understand that . . .</i></p> <p>4.OA.3</p> <p>-Addition, subtraction, multiplication, and division can be used to solve multistep word problems.</p> <p>-A remainder needs to be appropriately interpreted within the context of a word problem.</p> <p>-Estimation is a way to get an approximate answer.</p> <p>-That estimating, rounding, compatible numbers should be used to assess the reasonableness of an answer.</p>	<p><i>Students will be able to...</i></p> <p>4.OA.3</p> <p>-To use and discuss various strategies for solving multistep word problems.</p> <p>-Solve multistep word problems using +,-</p> <p>-Solve multistep word problems using x and / by using equations with a letter standing for the unknown quantity</p> <p>-Use mental computation to check the reasonableness of an answer</p> <p>-Use estimation strategies including rounding to check the reasonableness of an answer</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.OA.3:</p> <p>Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.</p>

Curriculum Map
4th Grade
Advanced Math

	questions? (4.OA.3)				
--	---------------------	--	--	--	--

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 3: Properties of Operations with Multi-Digit Arithmetic, Fraction Addition, and Subtraction	-What are efficient methods for finding sums? (4.NBT.4) -How can you add whole numbers? (4.NBT.4) -What are efficient methods for finding differences? (4.NBT.4) -How can you subtract whole numbers? (4.NBT.4) -How can place value properties aid computation? (4.NBT.4)	<i>Students will understand that . . .</i> 4.NTB.4 -Computation involves taking apart and combining numbers using a variety of approaches. -Fluency with basic addition and subtraction facts will aid in estimation and computation of larger numbers. -The standard algorithm for addition is based in the understanding of place value.	<i>Students will be able to...</i> 4.NBT.4 -Use standard algorithm to add multi-digit numbers -Use standard algorithm to subtract multi-digit numbers -Explain why algorithm for addition or subtraction works	-Slate Drills -Teacher Observation -Quiz -Teacher-Made Unit Assessment -State Model Unit Assessment -Performance Assessment - Practice Pages -Games on Eboard -Accelerated Math Program -Reflex Math (Online Program) -Renaissance Learning Star Math	4.NBT.4: Fluently add and subtract multi-digit whole numbers using the standard algorithm.

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 3: Properties of Operations with Multi-Digit Arithmetic, Fraction Addition, and Subtraction	<p>-When can you add or subtract parts of a whole? (4.NF.3)</p> <p>-How can you write a fraction as a sum of fractions with the same denominators? (4.NF.3)</p> <p>-How can you add fractions with like denominators using models? (4.NF.3)</p> <p>-How can you subtract fractions with like denominators using models? (4.NF.3)</p> <p>-How can you add and subtract fractions with like denominators? (4.NF.3)</p> <p>-In what ways can fractions be composed and decomposed? (4.NF.3)</p>	<p><i>Students will understand that . . .</i></p> <p>4.NF. 3</p> <p>-Fractions with different denominators can be added and subtracted.</p>	<p><i>Students will be able to...</i></p> <p>4.NF.3</p> <p>-Know that a fraction with a numerator of 1 is called a unit fraction</p> <p>-Use visual models to explore joining and separating of a fraction (See examples below)</p> <p>-3a Understand a fraction a/b with $a > 1$, as a sum of $1/b$ e.g. $\frac{3}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$</p> <p>-+, - fraction by joining and separating parts</p> <p>-3b Decompose fractions with the same denominator into a sum of fractions in a variety of ways e.g. $\frac{3}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$; $\frac{3}{8} = \frac{2}{8} + \frac{1}{8}$</p> <p>-Write equations to</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.NF.3:</p> <p>Understand a fraction a/b with $a > 1$ as a sum of fractions $1/b$.</p> <p>a. Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.</p> <p>b. Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model.</p> <p>c. Add and subtract mixed numbers with like denominators, e.g., by replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and</p>

Curriculum Map
4th Grade
Advanced Math

			<p>record decompositions of fractions</p> <p>-3c +, - mixed numbers with like denominators</p> <p>-Change mixed numbers into improper fractions</p> <p>-Change improper fractions into mixed numbers</p> <p>-+,- mixed numbers with like denominators by using visual models</p> <p>-And/or +, - mixed numbers by using properties of operations and the relationship between addition and subtraction</p> <p>-Solve word problems using addition and subtraction of fractions with like denominators by using visual fraction models and equations.</p>		<p>subtraction.</p> <p>d. Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators, e.g., by using visual fraction models and equations to represent the problem.</p>
--	--	--	--	--	---

Curriculum Map
4th Grade
Advanced Math

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 3: Properties of Operations with Multi-Digit Arithmetic, Fraction Addition, and Subtraction	<p>-How are fractions used in real life? (4.NF.4)</p> <p>-How can you write a fraction as a product of a whole number and a unit fraction? (4.NF.4)</p> <p>-How can you write the product of a whole number and a fraction as the product of a whole number and a unit fraction? (4.NF.4)</p> <p>-How can you use a model to multiply a fraction by a whole number? (4.NF.4)</p> <p>-How can you multiply a fraction by a whole number to solve a problem? (4.NF.4)</p> <p>-How can you use the strategy of drawing a diagram/model to solve comparison problems with</p>	<p><i>Students will understand that . . .</i></p> <p>4.NF.4</p> <p>-Fractions and decimals can be modeled, compared, and ordered.</p>	<p><i>Students will be able to...</i></p> <p>4.NF.4</p> <p>-Identify a fraction a/b with $a > 1$ as a multiple of $1/b$ e.g. $4/5 = 4 \times 1/5$</p> <p>-Multiply a fraction by a whole number using fraction models</p> <p>-Multiply a fraction by a whole number using equations</p> <p>-Solve 1-step word problems involving multiplication of a fraction by a whole number using visual fraction models and equations</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.NF.4:</p> <p>Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.</p> <p>a. Understand a fraction a/b as a multiple of $1/b$.</p> <p>b. Understand a multiple of a/b as a multiple of $1/b$, and use this understanding to multiply a fraction by a whole number.</p> <p>c. Solve word problems involving multiplication of a fraction by a whole number, e.g., by using visual fraction models and equations to represent the problem.</p>

Curriculum Map
4th Grade
Advanced Math

	fractions? (4.NF.4)				
--	---------------------	--	--	--	--

*Curriculum Map
4th Grade
Advanced Math*

Unit	Essential Questions	Content	Skills	Assessment	Standard
Unit 3: Properties of Operations with Multi-Digit Arithmetic, Fraction Addition, and Subtraction	<p>-How do units within a system relate to each other? (4.MD.1)</p> <p>-How can you use benchmarks to understand the relative sizes of measurement units? (4.MD.1)</p> <p>-How can you use models to compare customary units of length, weight, and liquid volume? (4.MD.1)</p> <p>-How can you use models to compare metric units of measurement? (4.MD.1)</p> <p>-How can you use models to compare units of time? (4.MD.1)</p>	<p><i>Students will understand that . . .</i></p> <p>4.MD.1</p> <p>-Everyday objects have a variety of attributes, each of which can be measured in many ways.</p> <p>-Standard units provide common language for communication and measurements.</p> <p>-The choice of measurement tools depends on the measurable attribute and the degree of precision desired.</p> <p>-Measurement can be used to describe, compare, and make sense of phenomena.</p> <p>-Larger units can be subdivided into</p>	<p><i>Students will be able to...</i></p> <p>4.MD.1</p> <p>-Memorize the relative sizes of measurements within one system</p> <p>--km, m, cm</p> <p>--kg, g</p> <p>--l, ml</p> <p>--lb, oz</p> <p>--hr, min, sec.</p> <p>--mi, yd, ft, in</p> <p>--cup, pint, quart, gallon</p> <p>-Compare measurements within a single system of measurement</p> <p>- Record</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.MD.1:</p> <p>Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table.</p>

Curriculum Map
4th Grade
Advanced Math

		equivalent units.	measurement equivalents in a 2 column table -Convert units within a system from larger to smaller units -Complete or generate a conversion table for feet and inches -Use data in problem solving -Select and use appropriate standard units of measures to solve real-life problems.		
--	--	-------------------	--	--	--

*Curriculum Map
4th Grade
Advanced Math*

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
Unit 3: <i>Properties of Operations with Multi-Digit Arithmetic, Fraction Addition, and Subtraction</i>	5.NF.1: How do you add and subtract fractions with unlike denominators?	<i>Students will understand that . . .</i> 5.NF.1 Common denominators are needed to add and subtract fractions with unlike denominators.	<i>Students will be able to...</i> 5.NF.1 Add and subtract fractions with unlike denominators (including mixed numbers”) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.	-Slate Drills -Teacher Observation -Quiz -Teacher-Made Unit Assessment -State Model Unit Assessment -Performance Assessment - Practice Pages -Games on Eboard -Accelerated Math Program -Reflex Math (Online Program) -Renaissance Learning Star Math	5.NF.1: Add and subtract fractions (including mixed numbers) with unlike denominators.

Curriculum Map
4th Grade
Advanced Math

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 3: Properties of Operations with Multi-Digit Arithmetic, Fraction Addition, and Subtraction</p>	<p>5.NF.2</p> <p>How do you know when your answer is reasonable when adding or subtracting fractions?</p>	<p><i>Students will understand that . . .</i></p> <p>5.NF.2</p> <p>You can tell the validity of an answer by using benchmark fractions and number sense.</p>	<p><i>Students will be able to...</i></p> <p>5.NF.2</p> <p>Solve word problems involving adding and subtracting fractions including unlike denominators, and determine if the answer is to the word problem is reasonable, using estimations with benchmark fractions.</p> <p>Consider and use available tools, such as diagrams and drawings when solving addition and subtraction word problems with unlike denominators.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>5.NF.2</p> <p>Solve word problems involving adding or subtracting fractions including unlike denominators, and determine if the answer to the word problem is reasonable, using estimations with benchmark fractions.</p>

*Curriculum Map
4th Grade
Advanced Math*

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 3: <i>Properties of Operations with Multi-Digit Arithmetic, Fraction Addition, and Subtraction</i></p>	<p>5.MD.1</p> <p>Why are measurement conversions necessary?</p> <p>How can we use conversions to solve multi-step, real-world problems?</p>	<p><i>Students will understand that . . .</i></p> <p>5.MD.1</p> <p>To solve real world problems, you may need to invert measures.</p> <p>Each measurement system has its own set of conversions</p>	<p><i>Students will be able to...</i></p> <p>5.MD.1</p> <p>Convert measurements within a given measurement system.</p> <p>Solve multi-step conversion word problems.</p> <p>Understand and make sense of quantities when converting measurements within a system.</p> <p>Look for and discern a pattern when converting measurements within a system.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>5.MD.1</p> <p>Convert standard measurement units within the same system (e.g., centimeters to meters) to solve multistep problems.</p>

*Curriculum Map
4th Grade
Advanced Math*

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 4: Extend Understanding of Fractions, Solve Word Problems, and Introduce Decimals</p>	<p>-How can you use a model to help you solve a multistep word problem? (4.OA.3)</p> <p>-How can you represent and solve multistep problems using equations? (4.OA.3)</p> <p>-How can you use remainders in division problems? (4.OA.3)</p> <p>-How do remainders affect your answers? (4.OA.3)</p> <p>-What questions can be answered using addition and subtraction? (4.OA.3)</p> <p>-How can multiplication be used to answer questions? (4.OA.3)</p> <p>-How can division be used to answer questions? (4.OA.3)</p>	<p><i>Students will understand that...</i></p> <p>4.OA.3</p> <p>-Addition, subtraction, multiplication, and division can be used to solve multistep word problems.</p> <p>-A remainder needs to be appropriately interpreted within the context of a word problem.</p> <p>-Estimation is a way to get an approximate answer.</p> <p>-That estimating, rounding, compatible numbers should be used to assess the reasonableness of an answer.</p>	<p><i>Students will be able to...</i></p> <p>4.OA.3</p> <p>-To use and discuss various strategies for solving multistep word problems.</p> <p>-Solve multistep word problems using +,-,x,/. </p> <p>-Solve multistep word problems in which remainders must be interpreted.</p> <p>-Use equations with a letter standing for the unknown quantity.</p> <p>-Use mental computation to check the reasonableness of an answer.</p> <p>-Use estimation strategies including rounding to check the reasonableness of an answer.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.OA.3: Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.</p>

Curriculum Map
4th Grade
Advanced Math

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 4: Extend Understanding of Fractions, Solve Word Problems, and Introduce Decimals</p>	<p>-How can you make and describe patterns? (4.OA.5)</p>	<p><i>Students will understand that . . .</i></p> <p>4.OA.5</p> <p>-Patterns can be used in real-life situations.</p> <p>-Patterns can be shapes or numbers</p> <p>-Patterns can be found in many forms.</p> <p>-Patterns can grow and repeat.</p> <p>-Patterns can be generalized.</p>	<p><i>Students will be able to...</i></p> <p>4.OA.5</p> <p>-Recognize number patterns that follow a given rule</p> <p>-Create a number pattern that follows a given rule using: +, -, x, or /</p> <p>-Recognize a shape pattern that follows a given rule</p> <p>-Create a shape pattern that follows a given rule</p> <p>-Identify implicit features of number patterns and explain why numbers will continue to alternate in a given way.</p> <p>-Use input/output tables to analyze, create, and extend patterns</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.OA.5:</p> <p>Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself.</p>

Curriculum Map
4th Grade
Advanced Math

			<p>-Use T-Charts to analyze, create, and extend patterns</p> <p>-Analyze function tables to determine rules and extend patterns</p> <p>-Identify and use multiplication, addition, subtraction, and division in patterns (Review basic facts)</p>		
--	--	--	---	--	--

*Curriculum Map
4th Grade
Advanced Math*

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 4: Extend Understanding of Fractions, Solve Word Problems, and Introduce Decimals</p>	<p>-How can you record tenths and hundredths as fractions and decimals? (4.NF.5)</p> <p>-How can you add fractions with denominators of 10 and 100? (4.NF.5)</p>	<p><i>Students will understand that . . .</i></p> <p>4.NF.5</p> <p>-Fractions and decimals can be modeled, compared, and ordered.</p> <p>-Fractions and decimals express a relationship between two numbers.</p>	<p><i>Students will be able to...</i></p> <p>4.NF.5</p> <p>-Express a fraction with denominator 10 as an equivalent fraction with denominator 100</p> <p>-Add two fractions with respective denominators 10 and 100 e.g. $\frac{3}{10} + \frac{4}{100} = \frac{34}{100}$</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.NF.5:</p> <p>Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100.</p>

Curriculum Map
4th Grade
Advanced Math

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 4: Extend Understanding of Fractions, Solve Word Problems, and Introduce Decimals</p>	<p>-How can you record tenths as fractions and decimals? (4.NF.6)</p> <p>-How can you record hundredths as fractions and decimals? (4.NF.6)</p>	<p><i>Students will understand that . . .</i></p> <p>4.NF.6</p> <p>-Fractions and decimals can be modeled, compared, and ordered.</p> <p>-Fractions and decimals express a relationship between two numbers.</p> <p>-A fraction can be multiplied by a whole number.</p>	<p><i>Students will be able to...</i></p> <p>4.NF.6</p> <p>-Recognize the relationships between fractions and decimals</p> <p>-Read and write fractions and decimals using place value chart</p> <p>-Rename fractions with denominators of 10 and 100 as decimals</p> <p>-Rename decimals (tenths, hundredths) as fractions with denominators of 10 and 100</p> <p>-Use decimal notation to write fractions with denominators of 10 or 100 by first writing each fraction as a fraction with denominator 100</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.NF.6:</p> <p>Use decimal notation for fractions with denominators 10 or 100.</p>

Curriculum Map
4th Grade
Advanced Math

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 4: Extend Understanding of Fractions, Solve Word Problems, and Introduce Decimals</p>	<p>-How can you compare decimals? (4.NF.7)</p>	<p><i>Students will understand that . . .</i></p> <p>4.NF.7</p> <p>-Decimals can be modeled, compared, and ordered.</p> <p>-Decimals express a relationship between two numbers.</p>	<p><i>Students will be able to...</i></p> <p>4.NF.7</p> <p>-Compare two decimals to hundredths</p> <p>-Record comparisons of decimals with the symbols $>$, $=$, $<$</p> <p>-Justify the comparisons of decimals with visual model such as area models, decimal grids, decimal circles, number lines, and meter sticks.</p> <p>-Recognize that comparisons of decimals are only valid when the two decimals refer to the same whole</p> <p>-Use pictures, numbers, or words to order, compare, and sequence decimals</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.NF.7:</p> <p>Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual model.</p>

Curriculum Map
4th Grade
Advanced Math

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 4: Extend Understanding of Fractions, Solve Word Problems, and Introduce Decimals</p>	<p>-How can you solve a problem involving mixed measures? (4.MD.2)</p> <p>-How are fractions and decimals used in real life? (4.MD.2)</p>	<p><i>Students will understand that . . .</i></p> <p>4.MD.2</p> <p>-Graphs organize data in a concise way.</p> <p>-There are many different ways to gather, record, and display data.</p> <p>-Area and perimeter are used to solve everyday problems.</p>	<p><i>Students will be able to...</i></p> <p>4.MD.2</p> <p>-Use +, -, x, / to solve word problems involving...Distances, intervals of time, capacity, weight, and money</p> <p>-Solve multistep word problems by changing measurements given in larger units to measurements in smaller units</p> <p>-Use number line diagrams to solve word problems</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.MD.2:</p> <p>Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.</p>

Curriculum Map
4th Grade
Advanced Math

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 4: Extend Understanding of Fractions, Solve Word Problems, and Introduce Decimals</p>	<p>-What is the difference between area and perimeter? (4.MD.3)</p> <p>-How can you use a formula to find the perimeter of a rectangle? (4.MD.3)</p> <p>-How can you use a formula to find the area of a rectangle? (4.MD.3)</p> <p>-How can you find the area of combined rectangles? (4.MD.3)</p> <p>-How can you find an unknown measure of a rectangle given its area or perimeter? (4.MD.3)</p> <p>-When would you need to use perimeter and area? (4.MD.3)</p>	<p><i>Students will understand that . . .</i></p> <p>4.MD.3</p> <p>-Graphs organize data in a concise way.</p> <p>-There are many different ways to gather, record, and display data.</p> <p>-Area and perimeter are used to solve everyday problems.</p>	<p><i>Students will be able to...</i></p> <p>4.MD.3</p> <p>-Develop and use formula for finding the perimeter of rectangles</p> <p>-Develop and use formula for finding the area of rectangles</p> <p>-Solve real world word problems by using the formulas for finding perimeter and area</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.MD.3:</p> <p>Apply the area and perimeter formulas for rectangles in real world and mathematical problems.</p>

*Curriculum Map
4th Grade
Advanced Math*

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 4: Extend Understanding of Fractions, Solve Word Problems, and Introduce Decimals</p>	<p>-How can you make and interpret line plots with fractional data? (4.MD.4)</p> <p>- What kinds of questions can be answered from a graph (line plot)? (4.MD.4)</p>	<p><i>Students will understand that . . .</i></p> <p>4.MD.4</p> <p>-Graphs organize data in a concise way.</p> <p>-There are many different ways to gather, record, and display data.</p> <p>-Area and perimeter are used to solve everyday problems.</p>	<p><i>Students will be able to...</i></p> <p>4.MD.4</p> <p>-Use a line plot</p> <p>-Make a line plot displaying data in fractions of unit (1/2, 1/4, 1/8)</p> <p>-Use information from line plots to solve problems involving addition and subtraction of fractions with like denominators</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.MD.4:</p> <p>Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Solve problems involving addition and subtraction of fractions by using information presented in line plots.</p>

Curriculum Map
4th Grade
Advanced Math

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 4: Extend Understanding of Fractions, Solve Word Problems, and Introduce Decimals</p>	<p>5.OA.3</p> <p>What causes numerical patterns to change?</p> <p>How can numerical patterns be compared?</p>	<p><i>Students will understand that . . .</i></p> <p>5.OA.3</p> <p>Different rules create different patterns of numbers.</p> <p>Numerical patterns can be compared on a coordinate plan.</p> <p>Tables, graphs, expressions, equations, and verbal descriptions are different ways to represent the same problem situation.</p>	<p><i>Students will be able...</i></p> <p>5.OA.3</p> <p>Generate two numerical patterns using two given rules.</p> <p>Describe the relationship between two numerical patterns.</p> <p>Construct input/output tables to form ordered pairs.</p> <p>Graph ordered pairs on a coordinate plane.</p> <p>Identify and explain the relationship between two numerical patterns on a graph.</p> <p>Write the rule for a pattern using a variable.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>5.OA.3</p> <p>Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from two patterns, and graph the ordered pairs on a coordinate plane. For example, given the rule “Add 3” and the starting number 0, and given the rule “Add 6” and the starting number 0, generate terms in the resulting sequences, and observe that the terms in one sequence are twice the corresponding terms in the other sequence. Explain informally why this is so.</p>

Curriculum Map
4th Grade
Advanced Math

--	--	--	--	--	--

Curriculum Map
4th Grade
Advanced Math

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 4: Extend Understanding of Fractions, Solve Word Problems, and Introduce Decimals</p>	<p>5.M.D.2 How can fractional data sets be analyzed using line plots?</p>	<p><i>Students will understand that . . .</i></p> <p>5.M.D.2 Line plots can be used to add, subtract, multiply, and divide fractional data sets.</p>	<p><i>Students will be able...</i></p> <p>5.MD.2 Create and label a line plot to display a data set containing fractions.</p> <p>Calculate the average of a data set containing fractions with unlike denominators.</p> <p>Add, subtract, multiply, and divide fractions.</p> <p>Simplify/reduce fractions to lowest terms.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>5.MD.2 Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$). 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.</p>

Curriculum Map
4th Grade
Advanced Math

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 5: Compare Decimals and Measure and Classify Geometric Figures</p>	<p>-What are efficient methods for finding sums? (4.NBT.4)</p> <p>-How can you add whole numbers? (4.NBT.4)</p> <p>-What are efficient methods for finding differences? (4.NBT.4)</p> <p>-How can you subtract whole numbers? (4.NBT.4)</p> <p>-How can place value properties aid computation? (4.NBT.4)</p>	<p><i>Students will understand that...</i></p> <p>4.NTB.4</p> <p>-Computation involves taking apart and combining numbers using a variety of approaches.</p> <p>-Fluency with basic addition and subtraction facts will aid in estimation and computation of larger numbers.</p> <p>-The standard algorithm for addition is based in the understanding of place value.</p>	<p><i>Students will be able to...</i></p> <p>4.NBT.4</p> <p>-Use standard algorithm to add multi-digit numbers</p> <p>-Use standard algorithm to subtract multi-digit numbers</p> <p>-Explain why algorithm for addition or subtraction works using knowledge of place value.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.NBT.4:</p> <p>Fluently add and subtract multi-digit whole numbers using the standard algorithm</p>

Curriculum Map
4th Grade
Advanced Math

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 5: Compare Decimals and Measure and Classify Geometric Figures</p>	<p>-How can you relate angles and fractional parts of a circle? (4.MD.5)</p> <p>-How are degrees related to fractional parts of a circle? (4.MD.5)</p> <p>- How are geometric properties used to solve problems in everyday life? (4.MD.5)</p> <p>-How can angles be classified? (4.MD.5)</p> <p>- How can angles be measured? (4.MD.5)</p> <p>-When would you use angles to solve problems? (4.MD.5)</p>	<p><i>Students will understand that . . .</i></p> <p>4.MD.5</p> <p>-There is a connection between angles and circular measurement (360).</p> <p>- Angles are geometric shapes formed by 2 rays.</p> <p>-Angles are classified based on their characteristics.</p> <p>-Angles can be measured by using a protractor.</p> <p>- Angles can be decomposed to solve problems.</p>	<p><i>Students will be able to...</i></p> <p>4.MD.5</p> <p>-Recognize angles as geometric shapes that are formed wherever 2 rays share a common endpoint</p> <p>-Recognize benchmark angles: right angle = 90 degrees, straight angle measures 180 degrees</p> <p>-Recognize acute angles measure less than 90</p> <p>-Recognize obtuse angles measure more than 90</p> <p>-Draw acute and obtuse angles</p> <p>-Know that an angle is measured with reference to a circle</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.MD.5:</p> <p>Recognize angles as geometric shapes that are formed whenever two rays share a common endpoint, and understand concepts of angle measurement.</p> <p>a. An angle is measured with reference to a circle with its center at the common endpoint of the rays, by considering the fraction of the circular arc between the points where the two rays intersect the circle. An angle that turns through $1/360$ of a circle is called a "one-degree angle," and can be used to measure angles.</p> <p>b. An angle that turns through n one-degree angles is said to have an angle measure of n degrees.</p>

Curriculum Map
4th Grade
Advanced Math

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 5: Compare Decimals and Measure and Classify Geometric Figures</p>	<p>-How can you use a protractor to measure and draw angles? (4.MD.6)</p>	<p><i>Students will understand that . . .</i></p> <p>4.MD.6</p> <p>-There is a connection between angles and circular measurement (360).</p> <p>- Angles are geometric shapes formed by 2 rays.</p> <p>-Angles are classified based on their characteristics.</p> <p>-Angles can be measured by using a protractor.</p> <p>- Angles can be decomposed to solve problems.</p>	<p><i>Students will be able to...</i></p> <p>4.MD.6</p> <p>-Draw angles of specified measures</p> <p>-Measure angles by using a circular protractor to the nearest whole number</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.MD.6:</p> <p>Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure.</p>

Curriculum Map
4th Grade
Advanced Math

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 5: Compare Decimals and Measure and Classify Geometric Figures</p>	<p>-How can you determine the measure of an angle separated into parts? (4.MD.7)</p>	<p><i>Students will understand that . . .</i></p> <p>4.MD. 7</p> <p>-There is a connection between angles and circular measurement (360).</p> <p>- Angles are geometric shapes formed by 2 rays.</p> <p>-Angles are classified based on their characteristics.</p> <p>-Angles can be measured by using a protractor.</p> <p>- Angles can be decomposed to solve problems.</p>	<p><i>Students will be able to...</i></p> <p>4.MD.7</p> <p>-Decompose (break) an angle into smaller parts (e.g. $25 + 65 = 90$)</p> <p>-Solve addition and subtraction problems to find unknown angle.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.MD.7:</p> <p>Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems, e.g., by using an equation with a symbol for the unknown angle measure.</p>

Curriculum Map
4th Grade
Advanced Math

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 5: Compare Decimals and Measure and Classify Geometric Figures</p>	<p>-How can you identify and draw parallel lines and perpendicular lines? (4.G.1)</p> <p>-What is the difference between intersecting, parallel, and perpendicular lines? (4.G.1)</p>	<p><i>Students will understand that . . .</i></p> <p>4.G.1</p> <p>-Geometric properties can be used to construct geometric figures.</p> <p>-Objects can be described and compared using their geometric attributes.</p> <p>-Everyday objects have a variety of attributes, each of which can be measured in many ways.</p>	<p><i>Students will be able to...</i></p> <p>4.G.1</p> <p>Draw and identify the following in isolation and within two-dimensional figures:</p> <p>-Points</p> <p>-Lines</p> <p>-Line Segments</p> <p>-Rays</p> <p>-Angles (Right, Acute, and Obtuse)</p> <p>-Perpendicular Lines</p> <p>-Parallel Lines</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.G.1:</p> <p>Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.</p>

*Curriculum Map
4th Grade
Advanced Math*

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 5: Compare Decimals and Measure and Classify Geometric Figures</p>	<p>-How can you sort and classify quadrilaterals? (4.G.2)</p>	<p><i>Students will understand that . . .</i></p> <p>4.G.2</p> <p>-Geometric properties can be used to construct geometric figures.</p> <p>-Objects can be described and compared using their geometric attributes.</p> <p>-Everyday objects have a variety of attributes, each of which can be measured in many ways.</p>	<p><i>Students will be able to...</i></p> <p>4.G.2</p> <p>Classify two-dimensional figures based on the presence or absence of</p> <p>-parallel lines</p> <p>-perpendicular lines</p> <p>-angles of a specified size</p> <p>-Recognize right triangles as a category</p> <p>-Identify right triangles</p> <p>-Classify two-dimensional shapes on specific attributes.</p> <p>-Identify and classify triangles by their angles and sides.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.G.2:</p> <p>Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles.</p>

Curriculum Map
4th Grade
Advanced Math

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 5: Compare Decimals and Measure and Classify Geometric Figures</p>	<p>- What strategies can be used to verify symmetry? (4.G.3)</p>	<p><i>Students will understand that . . .</i></p> <p>4.G.3</p> <p>-Objects can be described and compared by using their geometric attributes, including symmetry.</p> <p>-Transforming an object does not affect its attributes.</p> <p>-Symmetry is in art and nature.</p>	<p><i>Students will be able to...</i></p> <p>4.G.3</p> <p>-Identify/draw symmetrical objects</p> <p>-Identify/draw asymmetrical objects</p> <p>-Identify patterns with objects, and/or geometric figures that are symmetrical</p> <p>-Identify line-symmetrical figures</p> <p>-Draw lines of symmetry through line-symmetrical figures</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>4.G.3:</p> <p>Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetrical figures and draw lines of symmetry.</p>

Curriculum Map
4th Grade
Advanced Math

<u>Unit:</u>	<u>Essential Questions:</u>	<u>Content:</u>	<u>Skills:</u>	<u>Assessments:</u>	<u>Standard:</u>
<p><i>Unit 5: Compare Decimals and Measure and Classify Geometric Figures</i></p>	<p>5.G.1 What are coordinates and how are they used?</p>	<p><i>Students will understand that...</i></p> <p>5.G.1 A coordinate plane has an x- and y-axis. Coordinates are placed on this plane.</p>	<p><i>Students will be able to...</i></p> <p>5.G.1 Define the coordinate plane as a set of perpendicular lines, called axes. Define the intersection of the perpendicular lines as the origin. Define the first number in an ordered pair as how far the point travel left or right, known as the x-coordinate. Define the second number in an ordered pair as how far the point travels up or down, known as the y-coordinate. Describe the</p>	<p>-Slate Drills -Teacher Observation -Quiz -Teacher-Made Unit Assessment -State Model Unit Assessment -Performance Assessment - Practice Pages -Games on Eboard -Accelerated Math Program -Reflex Math (Online Program) -Renaissance Learning Star Math</p>	<p>5.G.1 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 in the direction of the second axis, with the convention that the names of the two axes and</p>

Curriculum Map
4th Grade
Advanced Math

			horizontal axis as the x-axis and the vertical axis as the y-axis.		coordinates correspond. (e.g., x-axis and x-coordinate, y-axis and y-coordinate.
--	--	--	--	--	--

*Curriculum Map
4th Grade
Advanced Math*

<u>Unit:</u>	<u>Essential Questions:</u>	<u>Content:</u>	<u>Skills:</u>	<u>Assessments:</u>	<u>Standard:</u>
<p><i>Unit 5: Compare Decimals and Measure and Classify Geometric Figures</i></p>	<p>5.G.2</p> <p>How can real-world and mathematical problems be represented on a coordinate plane?</p> <p>How do you interpret the value of points in a coordinate plane?</p>	<p><i>Students will understand that...</i></p> <p>5.G.2</p> <p>Real-world and mathematical problems can be represented by graphing points on a coordinate plane.</p>	<p><i>Students will be able to...</i></p> <p>5.G.2</p> <p>Graph points on a coordinate plane to solve real world and mathematical problems.</p> <p>Graph points in the first quadrant based on word problems.</p> <p>Specify units of measurement and label axes when working within a coordinate plane.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>5.G.2</p> <p>Represent real-world and mathematical problems by graphing point in the first quadrant of the coordinate plane, and interpret coordinate values of points in context of the situation.</p>

*Curriculum Map
4th Grade
Advanced Math*

<u>Unit:</u>	<u>Essential Questions:</u>	<u>Content:</u>	<u>Skills:</u>	<u>Assessments:</u>	<u>Standard:</u>
<p>Unit 5: <i>Compare Decimals and Measure and Classify Geometric Figures</i></p>	<p>5.MD.3</p> <p>How do we represent the inside of a three dimensional figure?</p>	<p><i>Students will understand that...</i></p> <p>5.MD.3</p> <p>That volume represents the measure of the inside of a three dimensional figure.</p>	<p><i>Students will be able to...</i></p> <p>5.MD.3</p> <p>Understand and make sense of volume quantities.</p> <p>Use quantitative reasoning to create a coherent representation of volume.</p> <p>Explain/show the volume of a solid figure through repeated addition of unit cubes.</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>5.MD.3</p> <p>Recognize volume as an attribute of solid figures and understand concepts of volume measurement.</p> <p>a. A cube with side length of 1 unit, called a “unit cube,” is said to have “one cubic unit” of volume.</p> <p>b. A solid figure which can be packed without gaps or overlaps using n unit cubes is said to have a volume of n cubic units.</p>

*Curriculum Map
4th Grade
Advanced Math*

<u>Unit:</u>	<u>Essential Question:</u>	<u>Content:</u>	<u>Skill:</u>	<u>Assessments:</u>	<u>Standard:</u>
<p><i>Unit 5: Compare Decimals and Measure and Classify Geometric Figures</i></p>	<p>5.MD.4 How can cubic units be used to measure volume?</p>	<p><i>Students will understand that...</i></p> <p>5.MD.4 You can count cubic units to measure volume.</p>	<p><i>Students will be able to...</i></p> <p>5.MD.4 Calculate the volume of a solid figure by counting the unit cubes.</p> <p>Choose the appropriate cubic unit based on the figures attributes and ensure that the measurement is valid.</p> <p>Convert between units of measure when calculating volume.</p>	<p>Assessments: -Slate Drills -Teacher Observation -Quiz -Teacher-Made Unit Assessment -State Model Unit Assessment -Performance Assessment - Practice Pages -Games on Eboard -Accelerated Math Program -Reflex Math (Online Program) -Renaissance Learning Star Math</p>	<p>5.MD.4 Measure volume by counting cubes, using cubic cm, cubic in, cubic ft and improvised units.</p>

Curriculum Map
4th Grade
Advanced Math

<i>Unit</i>	<i>Essential Questions</i>	<i>Content</i>	<i>Skills</i>	<i>Assessment</i>	<i>Standard</i>
<p>Unit 5: <i>Compare Decimals and Measure and Classify Geometric Figures</i></p>	<p>5.MD.5</p> <p>How can the volume of a rectangular prism be measured?</p>	<p><i>Students will understand that . . .</i></p> <p>5.MD.5</p> <p>You can find the volume if a rectangular prism by packing it with unit cubes, multiplying the edge lengths, and by multiplying the height by the area of the base.</p>	<p><i>Students will be able to...</i></p> <p>5.MD.5</p> <p>Define right rectangular prism.</p> <p>Calculate the volume of a right rectangular prism by packing it with unit cubes.</p> <p>Calculate the volume of a right rectangular prism by using the formula $V = l \times w \times h$ and $V = B \times h$ (Area of the base times the height).</p> <p>Explain how finding the volume using the methods above result in the same solution.</p> <p>Calculate the volumes of non-overlapping right rectangular prisms and add them together.</p> <p>Solve word problems requiring the</p>	<p>-Slate Drills</p> <p>-Teacher Observation</p> <p>-Quiz</p> <p>-Teacher-Made Unit Assessment</p> <p>-State Model Unit Assessment</p> <p>-Performance Assessment</p> <p>- Practice Pages</p> <p>-Games on Eboard</p> <p>-Accelerated Math Program</p> <p>-Reflex Math (Online Program)</p> <p>-Renaissance Learning Star Math</p>	<p>5.MD.5</p> <p>Relate volume to the operations of multiplication and addition and solve real-world and mathematical problems involving volume.</p> <p>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 it would be found by multiplying the height by the area of the base.</p> <p>Represent threefold whole number products as volumes, e.g. to represent the associative property of multiplication.</p> <p>b. Apply the formula $V = l \times w \times h$ and $V = B \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole number</p>

Curriculum Map
4th Grade
Advanced Math

			calculation of multiple volumes and adding them together.		edge lengths in the context of solving real world and mathematical problems. c.. Recognize volume as an additive. Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-overlapping parts, applying this techniques to solve real world problems.
--	--	--	---	--	--