

CCS COURSE MAP

SUBJECT: MATH

GRADE LEVEL 5th Grade
COURSE LENGTH YEAR

REVIEWED 2018-2019

Student Goals:					
		I	To understand that mathematical concepts are a part of God's structure and order in His creation.		
		II	To understand the importance of using mathematics in daily life and how the concepts apply to students.		
		III	To develop thinking and reasoning skills while improving upon realistic problem solving skills that will enhance students' worldview.		
Student Outcomes:					
		I	The students will be able to provide general knowledge of basic mathematical concepts including number sense, geometry, operations, and measurement.		
		II	The students will be able to develop mathematical understanding of fractions, decimals, and percentages and how they are intertwined.		
		III	The students will be able to demonstrate the use of math concepts correctly in daily living by practicing problem solving skills.		
UNIT/ WEEKS	STAND ARD	OBJECTIVES	ACTIVITIES/ASSESSMENT	RESOURCES	BIBLICAL INTEGRATION
1. Numeration 1 to 1-1/2 weeks	5.1.2.1 5.1.2.3	Students will write the standard, expanded, and word forms of whole numbers in the billions and decimals through millionths Students will identify the value of digits in whole and decimal numbers. Students will compare and order whole numbers through billions and decimals through thousandths.	Classroom discussions/ lecture/demonstration by teacher and students. In-class work. Homework Quiz/test	Scott Foresman- Addison Wesley enVisionMATH ©2011 textbook Worksheets Manipulatives	Students will be able to use mathematics as a tool to explore and manage God's creation and to glorify God, especially for His created order in mathematics.

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		Students will look for patterns with decimal-number sets in order to solve problems.			
2. Adding and Subtracting Whole Numbers and Decimals 3 weeks	5.1.1.3 5.1.3.1 5.1.3.3 5.1.3.4 5.2.1.1 5.2.2.1	<p>Students will compute sums and differences mentally using the Commutative and Associative Properties of Addition, compatible numbers, and compensation.</p> <p>Students will round whole numbers through millions and decimals through thousandths.</p> <p>Students will use rounding and compatible numbers to estimate sums and differences of whole numbers and decimals.</p> <p>Students will use pictures and write equations to help them solve problems.</p> <p>Students will compute sums and differences of two large</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Scott Foresman-Addison Wesley enVisionMATH ©2011 textbook</p> <p>Worksheets</p> <p>Manipulatives</p>	Students will be able to use mathematics as a tool to explore and manage God's creation and to glorify God, especially for His created order in mathematics.

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		<p>whole numbers.</p> <p>Students will compute sums and differences of decimals involving tenths, hundredths and thousandths.</p>			
<p>3. Multiplying Whole Numbers</p> <p>3 to 3-1/2 weeks</p>	<p>5.1.1.4 5.2.1.1 5.2.2.1 5.2.3.2 5.2.3.3</p>	<p>Students will identify and apply the Commutative, Associative, Identity, and Zero Properties of Multiplication.</p> <p>Students will mentally compute products of whole numbers using place-value patterns and the properties of multiplication.</p> <p>Students will use rounding or compatible numbers to estimate products of whole numbers.</p> <p>Students will multiply multi-digit numbers by a one-digit number.</p> <p>Students will multiply two-</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Scott Foresman-Addison Wesley enVisionMATH ©2011 textbook</p> <p>Worksheets</p> <p>Manipulatives</p>	<p>Students will be able to use mathematics as a tool to explore and manage God's creation and to glorify God, especially for His created order in mathematics.</p>

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		<p>digit numbers by two-digit numbers.</p> <p>Students will multiply two-digit numbers by factors with more than two digits.</p> <p>Students will use exponential notation.</p> <p>Students will use diagrams and write equations to solve problems.</p>			
<p>4. Dividing by 1-Digit Divisors</p> <p>3-4 weeks</p>	<p>5.1.1.1 5.1.1.2 5.1.1.4</p>	<p>Students will divide multiples of 10 and 100.</p> <p>Students will estimate quotients.</p> <p>Students will check problems for reasonableness using various methods.</p> <p>Students will find quotients using a model.</p> <p>Students will divide by 1-digit divisors.</p> <p>Students will divide with zeros in the quotient.</p> <p>Students will use divisibility</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Scott Foresman-Addison Wesley enVisionMATH ©2011 textbook</p> <p>Worksheets</p> <p>Manipulatives</p>	<p>Students will be able to use mathematics as a tool to explore and manage God's creation and to glorify God, especially for His created order in mathematics.</p>

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		<p>rules to find factors.</p> <p>Students will be able to determine whether a number is prime or composite.</p> <p>Students will be able to solve problems by drawing pictures and writing equations.</p>			
<p>5. Dividing by 2-Digit Divisors</p> <p>2 weeks</p>	<p>5.1.1.1 5.1.1.2 5.1.1.3 5.1.1.4</p>	<p>Students will use patterns to divide.</p> <p>Students will estimate quotients with 2-digit divisors</p> <p>Students will solve multiple-step problems.</p> <p>Students will be able to divide by multiples of 10 and 100.</p> <p>Students will find 1-digit quotients where the divisor is a 2-digit number.</p> <p>Students will divide a 3-digit number by a 2-digit number to find a 2-digit quotient.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Scott Foresman-Addison Wesley enVisionMATH ©2011 textbook</p> <p>Worksheets</p> <p>Manipulatives</p>	<p>Students will be able to use mathematics as a tool to explore and manage God's creation and to glorify God, especially for His created order in mathematics.</p>

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		Students will solve problems involving division of numbers with 4 or 5 digits by 2-digit divisors with an estimate.			
6. Variables and Expressions 2-3 weeks	5.2.1.2 5.2.2.1 2.2.3.1 5.2.3.2 5.2.3.3	<p>Students will translate words into algebraic expressions.</p> <p>Students will use patterns to show relationships and evaluate algebraic expressions.</p> <p>Students will write and evaluate expressions involving multiplication, addition, and subtraction.</p> <p>Students will use the Distributive Property to simplify expressions and solve equations.</p> <p>Students will evaluate expressions.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Scott Foresman-Addison Wesley enVisionMATH ©2011 textbook</p> <p>Worksheets</p> <p>Manipulatives</p>	<p>Students will be able to use mathematics as a tool to explore and manage God's creation and to glorify God, especially for His created order in mathematics.</p>

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<p>7. Multiplying and Dividing Decimals</p> <p>3-4 weeks</p>	<p>5.1.1.1 5.1.1.3</p>	<p>Students will mentally multiply and divide decimals by 10, 100 and 1,000.</p> <p>Students will use an algorithm to multiply or divide a whole number and a decimal or a decimal and a decimal.</p> <p>Students will estimate products and quotients of whole numbers and decimals.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Scott Foresman-Addison Wesley enVisionMATH ©2011 textbook</p> <p>Worksheets</p> <p>Manipulatives</p>	<p>Students will be able to use mathematics as a tool to explore and manage God's creation and to glorify God, especially for His created order in mathematics.</p>
<p>8. Shapes</p> <p>2 weeks</p>		<p>Students will use geometric terms to describe locations and parts of space.</p> <p>Students will measure, draw and classify angles.</p> <p>Students will identify and classify polygons, triangles, and quadrilaterals.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Scott Foresman-Addison Wesley enVisionMATH ©2011 textbook</p> <p>Worksheets</p> <p>Manipulatives</p>	<p>Students will be able to use mathematics as a tool to explore and manage God's creation and to glorify God, especially for His created order in mathematics.</p>

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<p>9. Fractions and Decimals</p> <p>3 weeks</p>	<p>Students will identify and show fractional parts of regions and sets.</p> <p>Students will represent fractions on a number line.</p> <p>Students will write improper fractions as mixed numbers and mixed numbers as improper fractions.</p> <p>Students will identify fractions that are equivalent and will find equivalent fractions.</p> <p>Students will be able to compare fractions and mixed numbers.</p> <p>Students will be able to determine common factors and the GCF.</p> <p>Students will be able to write fractions in simplest form.</p> <p>Students will be able to write decimals (tenths, hundredths and thousandths) as fractions and vice versa.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Scott Foresman-Addison Wesley enVisionMATH ©2011 textbook</p> <p>Worksheets</p> <p>Manipulatives</p>	<p>Students will be able to use mathematics as a tool to explore and manage God's creation and to glorify God, especially for His created order in mathematics.</p>
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<p>10. Adding and Subtracting Fractions and Mixed Numbers</p> <p>2 weeks</p>	<p>5.1.3.1 5.1.3.2</p>	<p>Students will be able to add and subtract fractions with like and unlike denominators and be able to add and subtract mixed numbers.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Scott Foresman-Addison Wesley enVisionMATH ©2011 textbook</p> <p>Worksheets</p> <p>Manipulatives</p>	<p>Students will be able to use mathematics as a tool to explore and manage God's creation and to glorify God, especially for His created order in mathematics.</p>
<p>11. Multiplying Fractions and Mixed Numbers</p> <p>2 weeks</p>		<p>Students will be able multiply and divide fractions and mixed numbers.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Scott Foresman-Addison Wesley enVisionMATH ©2011 textbook</p> <p>Worksheets</p> <p>Manipulatives</p>	<p>Students will be able to use mathematics as a tool to explore and manage God's creation and to glorify God, especially for His created order in mathematics.</p>

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<p>12. Perimeter and Area</p> <p>2 -3 weeks</p>	<p>5.3.2.1</p>	<p>Students will be able to use customary and metric units of length to find perimeter and circumference.</p> <p>Students will be able to find the area of squares, rectangles, parallelograms, triangles, circles.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Scott Foresman-Addison Wesley enVisionMATH ©2011 textbook</p> <p>Worksheets</p> <p>Manipulatives</p>	<p>Students will be able to use mathematics as a tool to explore and manage God’s creation and to glorify God, especially for His created order in mathematics.</p>
<p>13. Solids</p> <p>2-3 weeks</p>	<p>5.3.2.2 5.3.2.3 5.3.2.4</p>	<p>Students will be able to relate shapes and solids and draw nets of solids.</p> <p>Students will be able to find the surface area of solids.</p> <p>Students will be able to find the volume of solids.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Scott Foresman-Addison Wesley enVisionMATH ©2011 textbook</p> <p>Worksheets</p> <p>Manipulatives</p>	<p>Students will be able to use mathematics as a tool to explore and manage God’s creation and to glorify God, especially for His created order in mathematics.</p>

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