

CCS COURSE MAP

SUBJECT: MATH

GRADE LEVEL 6

COURSE LENGTH YEAR

REVIEWED 2018-2019

Student Goals:					
		I	To develop thinking and reasoning skills while improving problem solving skills that will enhance students' everyday life.		
		II	To come to the understanding that mathematical concepts are a part of God's structure and order in His creation.		
		III	To benefit each student as they begin to decide what their field of study will be.		
Student Outcomes					
		I	The students will be able to provide general knowledge of basic mathematical concepts including operations, geometry, number sense, measurement, and algebra.		
		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	STANDARD	OBJECTIVES	ACTIVITIES/ASSESSMENT	RESOURCES	BIBLICAL INTEGRATION
Topic 1 Numeration 2 Weeks	6.1.1.1 6.1.1.2 6.1.1.4	Students will: <ul style="list-style-type: none"> • write numbers in standard, expanded, and word form • represent numbers in the millions using a place-value chart • write numbers in expanded form, using periods to help write numbers in word form • apply their knowledge of place value to compare and order numbers • show how to use place value to round whole numbers 	<ul style="list-style-type: none"> • write numbers in standard, expanded, and word form • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<u>Zechariah 2:1-2</u> ESV “And I lifted my eyes and saw, and behold, a man with a measuring line in his hand! Then I said, “Where are you going?” And he said to me, “To measure Jerusalem, to see what is its width and

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		<ul style="list-style-type: none"> • use place-value charts to read, write, and compare decimals in tenths and hundredths using money convert a collection of coins and bills into a total amount and make change 			<p>what is its length.”</p> <p>The bible is full of numbers and the use of mathematics.</p>
<p>Topic 2</p> <p>Variables, Expressions, and Properties</p> <p>Two Weeks</p>	<p>6.2.1.1</p> <p>6.2.1.2</p> <p>6.2.3</p>	<p>Students will:</p> <ul style="list-style-type: none"> • write algebraic expressions using different properties • learn order of operation • break numbers apart mentally • evaluate expressions • use expressions to describe patterns 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<p><u>Genesis 6:15-16</u> ESV / votes</p> <p>“This is how you are to make it: the length of the ark 300 cubits, its breadth 50 cubits, and its height 30 cubits. Make a roof for the ark, and finish it to a cubit above, and set the door of the ark in its side. Make it with lower, second, and third decks.”</p> <p>The ark was made to specific dimensions</p>

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					which involved a lot of measurement and calculations.
<p>Topic 3</p> <p>Operations with Decimals</p> <p>Two Weeks</p>	<p>6.1.1.7</p> <p>6.1.2</p> <p>6.1.3.1</p> <p>6.1.3.4</p> <p>6.2.2.1</p> <p>6.2.3.1</p>	<p>Students will:</p> <ul style="list-style-type: none"> • estimate sums and differences • adding and subtracting • estimating products and quotients • multiplying decimals • dividing by a whole number • dividing a whole number by a decimal • dividing decimals • evaluating expressions • scientific notation 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<ul style="list-style-type: none"> • Adding, subtracting, and multiplying decimals helps us learn that even the smallest parts matter and that they can make a big difference. God loves all the small details and we are all uniquely made.

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<p>Topic 4</p> <p>Solving Equations</p> <p>2 weeks</p>	<p>6.1.3.1</p> <p>6.1.3.4</p> <p>6.2.1.1</p> <p>6.2.1.2</p> <p>6.2.2.1</p>	<p>Students will:</p> <ul style="list-style-type: none"> • properties of equality • solving addition and subtraction equations • solving multiplication and division equations 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<ul style="list-style-type: none"> • We want students to treat others as we would like to be treated. Therefore, students can use knowledge of adding and subtracting to share fairly with their friends.

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<p>Topic 5</p> <p>Number and Fraction Concepts</p> <p>2 weeks</p>	<p>6.1.1.2</p> <p>6.1.1.5</p> <p>6.1.1.6</p>	<p>Students will:</p> <ul style="list-style-type: none"> • learn divisibility rules • prime factorization • find greatest common factor from a set of numbers • understanding fractions • fractions in simplest form 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<p>God is the greatest common factor that we can have in our lives.</p>
<p>Topic 6</p> <p>Decimals, Fractions, and Mixed Numbers</p> <p>2 weeks</p>	<p>6.1.1.1</p> <p>6.1.1.7</p>	<p>Students will:</p> <ul style="list-style-type: none"> • number lines • convert fractions to decimals • improper fractions into mixed numbers • understanding fractions 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<ul style="list-style-type: none"> • Classifying and sorting shapes into categories gives order to our lives, which shows that God is a God of order.

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<p>Topic 7</p> <p>Adding and Subtracting Fractions and Mixed Numbers</p> <p>2 Weeks</p>	<p>6.1.3</p> <p>6.1.3.1</p> <p>6.1.3.2</p> <p>6.1.3.4</p>	<p>Students will:</p> <ul style="list-style-type: none"> • add and subtract like denominators • find common multiples • least common multiple • estimate sums and differences of mixed numbers • subtract mixed numbers 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<p>God is in control of everything despite all of the differences we all have. There are many numbers but many have that common denominator.</p>
<p>Topic 8</p> <p>Multiplying Fractions and Mixed Numbers</p> <p>2 weeks</p>	<p>6.1.3.1</p> <p>6.1.3.2</p>	<p>Students will:</p> <ul style="list-style-type: none"> • multiply a fraction and a whole number • estimate products • multiply fractions • multiplying mixed numbers 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<ul style="list-style-type: none"> • We can learn about fairness when dealing with fractions. Talk about sharing equally with those in need.

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<p>Topic 9</p> <p>Dividing Fractions and Mixed Numbers</p> <p>2 weeks</p>	<p>6.1.3.1</p> <p>6.1.3.3</p>	<p>Students will:</p> <ul style="list-style-type: none"> • understanding division of fractions • dividing a whole number by a fraction • dividing fractions • estimating quotients • dividing mixed numbers • solving equations 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<ul style="list-style-type: none"> • We can also learn about fairness when dealing with fractions. Talk about sharing equally with those in need.
<p>Topic 10</p> <p>Integers</p> <p>2 weeks</p>	<p>6.2.1.2</p> <p>6.1.1.1</p>	<p>Students will:</p> <ul style="list-style-type: none"> • understand integers • comparing and ordering integers • rational numbers on a number line • adding integers • subtracting integers • multiplying integers • dividing integers • solving equations with integers • graphing points on a coordinate plane 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<ul style="list-style-type: none"> • God is a God of precision and accuracy.

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<p>Topic 11</p> <p>Properties of Two-Dimensional Figures</p>	<p>6.3.1.2</p> <p>6.3.2.1</p> <p>6.3.2.2</p>	<p>Students will:</p> <ul style="list-style-type: none"> • basic geometric ideas • measuring and drawing angles • angle pairs • triangles • quadrilaterals • circles • transformations and congruence • symmetry 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<p>Symmetry reveals a lot about creation.</p>
<p>Topic 12</p> <p>Ratios, Rates, and Proportions</p> <p>2 weeks</p>	<p>6.3.3.1</p> <p>6.3.3.2</p>	<p>Students will:</p> <ul style="list-style-type: none"> • understanding ratios • equal ratios and proportions • understanding rates and unit rates • comparing rates • distance, rate, and time 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<ul style="list-style-type: none"> • We can also learn about fairness when dealing with ratios and rates. Talk about sharing equally with those in need.

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<p>Topic 13</p> <p>Solving Proportions</p> <p>2 weeks</p>	<p>6.3.3.1</p> <p>6.2.1.2</p>	<p>Students will:</p> <ul style="list-style-type: none"> • using ratio tables • using unit rates • ways to solve proportions • similar figures 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<ul style="list-style-type: none"> • We can see God’s systematic character in the multiplication tables and other formulas
<p>Topic 14</p> <p>Understanding Percent</p> <p>2 Weeks</p>	<p>6.1.3.3</p>	<p>Students will:</p> <ul style="list-style-type: none"> • understanding percent • fractions, decimals, and percents • percents greater than 100 and less than 1 • estimating percent • find the percent of a number • tips, taxes, discount, and simple interest 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<p>Numbers are well organized with place values and periods. We know that God is also organized and a God of order.</p>

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<p>Topic 15</p> <p>Equations and Graphs</p> <p>2 weeks</p>	<p>6.2.1.2</p> <p>6.2.3.2</p>	<p>Students will:</p> <ul style="list-style-type: none"> • equations with more than one operation • patterns and equations • graphing equations • functions 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<ul style="list-style-type: none"> • We can see God’s systematic character in the multiplication tables and other formulas
<p>Topic 16</p> <p>Measurement</p> <p>2 weeks</p>	<p>6.3.3.2</p>	<p>Students will:</p> <ul style="list-style-type: none"> • Converting customary measures • Converting metric measures • Unit of measure and precision • Relating customary and metric measures • Elapsed time 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<ul style="list-style-type: none"> • Knowing how to take accurate measurements will make us more efficient in the work we may be called to in God’s Kingdom.

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<p>Topic 18 Perimeter and Area 2 Weeks</p>	<p>6.3.1.1 6.3.1.2</p>	<p>Students will:</p> <ul style="list-style-type: none"> • perimeter • area of rectangles and irregular figures • volume of rectangular prisms • area of parallelograms and triangles • circumference • area of a circle 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<ul style="list-style-type: none"> • Understanding area and perimeter can help us be responsible with the materials we use. God has given us materials, and we need to use them wisely. Knowledge of just how much we need can prevent waste.
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<p>Topic 19</p> <p>Data and Graphs</p> <p>2 Weeks</p>	<p>6.2.1.2</p>	<p>Students will:</p> <ul style="list-style-type: none"> • reading and making graphs • circle graphs • comparing graphs 	<ul style="list-style-type: none"> • Complete related whole group and small group activities • Classroom and small group discussions • Complete textbook assignments • Occasional games • Test Review • Topic Test 	<ul style="list-style-type: none"> • Envision Math 4 Teacher Edition • Envision Math 4 Student Textbook • Various Teacher Resources • Various Math Games 	<p>Graphs help organize our information and make it easier to visualize. God has a plan for us despite our own paths that we create.</p>
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