

CCS COURSE MAP

SUBJECT: PRE-ALGEBRA

GRADE LEVEL 7th GRADE
COURSE LENGTH YEAR

REVIEWED 2018-2019

Student Goals:					
		I	To demonstrate proficiency in arithmetic operations involving positive and negative numbers, including fractions, decimals, and percents.		
		II	To manipulate and evaluate basic algebraic expressions and to solve simple algebraic equations.		
		III	To apply basic arithmetic and algebraic skills to solve problems related to functions, statistics, probability, and geometric concepts.		
		IV	To demonstrate proficiency in reasoning and problem-solving skills, including the generalization from arithmetic to algebra.		
		V	To use mathematics as a tool to explore and manage God's creation.		
Student Outcomes:					
		I	The students will be able to obtain knowledge of basic concepts of Pre-Algebra, including integers, equations, rational numbers, percents, inequalities, probability, and radicals.		
		II	The students will be able to expand on their sense of numbers to understand, perform operations, and solve problems with rational numbers.		
UNIT/ WEEKS	STANDARD	OBJECTIVES	ACTIVITIES/ASSESSMENT	RESOURCES	BIBLICAL INTEGRATION
1. Integers and Rational Numbers 3-4 weeks	7.1.1.1	Students will be able to compute with signed numbers and opposites.	Classroom discussions/lecture/demonstration by teacher and students. In-class work.	Prentice Hall Accelerated Grade 7 Mathematics © 2012 Scientific Calculator	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.
	7.1.1.2				
	7.1.1.3				
	7.1.1.4				
	7.1.1.5				
	7.1.2.1	Students will be able to plot positive and negative numbers on a number line and use a number line to perform calculations.	Homework	Chapter notes	
	7.1.2.2				
	7.1.2.6				
	7.2.3.1				
	7.2.3.3				
	Students will be able	Quiz/test			

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		<p>to estimate and find square and cube roots and solve equations with square and cube roots.</p> <p>Students will be able to compare rational numbers using $<$, $>$, $=$</p> <p>Students will be able to identify rational and irrational numbers.</p> <p>Students will understand the meaning of absolute value.</p>			
<p>2. Exponents 2-3 weeks</p>	<p>7.1.2.1 7.1.2.4</p>	<p>Students will be able to multiply and divide powers including numbers in scientific notation. Students will also be able to simplify powers of zero and negative powers.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Prentice Hall Accelerated Grade 7 Mathematics © 2012</p> <p>Scientific Calculator</p> <p>Chapter notes</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>3. Equations 4-5 weeks</p>	<p>7.2.2.4 7.2.3.1 7.2.3.2 7.2.4.1</p>	<p>Students will be able to evaluate and write algebraic expressions.</p> <p>Students will be able to solve one-step and multi-step equations.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Prentice Hall Accelerated Grade 7 Mathematics © 2012</p> <p>Scientific Calculator</p> <p>Chapter notes</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>4. Inequalities 2 weeks</p>	<p>7.2.2.4 7.2.3.1</p>	<p>Students will be able to write and solve one-step and two-step inequalities.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Prentice Hall Accelerated Grade 7 Mathematics © 2012</p> <p>Scientific Calculator</p> <p>Chapter notes</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>5. Ratios, Rates and Proportions</p> <p>4 weeks</p>	<p>7.1.2.5 7.2.1.1 7.2.2.1 7.2.2.2 7.2.4.2 7.3.2.1 7.3.2.2 7.3.2.3</p>	<p>Students will be able to find equivalent ratios, identify proportions, and solve proportions.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Prentice Hall Accelerated Grade 7 Mathematics © 2012</p> <p>Scientific Calculator</p> <p>Chapter notes</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>6. Percents</p> <p>2-3 weeks</p>	<p>7.1.1.4 7.1.1.5 7.2.2.2 7.2.2.3</p>	<p>Students will be able to compare percents with fractions and decimals and solve problems involving percents.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Prentice Hall Accelerated Grade 7 Mathematics © 2012</p> <p>Scientific Calculator</p> <p>Chapter notes</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. Introduction to Functions</p> <p>2-3 weeks</p>	<p>7.2.1.2 7.2.2.1</p>	<p>Students will be able to graph relationships, functions, proportional relationships and linear functions.</p> <p>Students will identify proportional and linear functions.</p> <p>Students will be able to describe slope and find the slope of a line given two points on the line.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Prentice Hall Accelerated Grade 7 Mathematics © 2012</p> <p>Scientific Calculator</p> <p>Chapter notes</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. Analyzing Data</p> <p>2-3 weeks</p>	<p>7.4.2.1</p>	<p>Students will obtain and display data in box plots and line plots.</p> <p>Students will learn about sampling, surveys and using data to make predictions.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Prentice Hall Accelerated Grade 7 Mathematics © 2012</p> <p>Scientific Calculator</p> <p>Chapter notes</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. Probability 2-3 weeks</p>	<p>7.4.3.2 7.4.3.3</p>	<p>Students will be able to find theoretical and experimental probability.</p> <p>Students will be able to find the probability of simple events and compound events.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Prentice Hall Accelerated Grade 7 Mathematics © 2012</p> <p>Scientific Calculator</p> <p>Chapter notes</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>10-11. Geometry and Area 2-4 weeks</p>	<p>7.3.1.1</p>	<p>Students will be able to classify angles.</p> <p>Students will be able to find the area of polygons.</p> <p>Students will be able to find the circumference and area of 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>Prentice Hall Accelerated Grade 7 Mathematics © 2012</p> <p>Scientific Calculator</p> <p>Chapter notes</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. Surface Area and Volume 2-3 weeks</p>	<p>7.3.1.2</p>	<p>Students will be able to find the surface area and volume of three-dimensional figures.</p>	<p>Classroom discussions/lecture/demonstration by teacher and students.</p> <p>In-class work.</p> <p>Homework</p> <p>Quiz/test</p>	<p>Prentice Hall Accelerated Grade 7 Mathematics © 2012</p> <p>Scientific Calculator</p> <p>Chapter notes</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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