

Course Name/Number: Life Skills Math 500--Algebra and Geometry

Grade Level: 9th-12th

Curriculum Map

Unit	Essential Questions	Standards & Skills	Common Assessments	Learning Activities	Resources/Technology	Unit Reflection
<p>Name: Chapter 1 - Review of Whole Numbers Pre-Algebra Pacemaker Quarter: 1st Length (days): 16 days</p>	<ul style="list-style-type: none"> -Use place value -Compare whole numbers -Round whole numbers -Add, subtract, multiply, and divide whole numbers. -Estimate sums, differences, products and quotients. -Use exponents to find powers -Guess, check and revise to solve problems -Apply concepts and skills to find perimeter. 		<p>Formative:</p> <p>Summative:</p>	<p>Teacher lectures, note taking, dry erase board practice, Problem of the Day, worksheets, individual projects</p>	<p>Textbook, dry erase board, calculators (when needed), multiplication chart, and smart-board</p>	
<p>Name: Chapter 2 - Number Expressions, equations and properties Pre-Algebra Pacemaker Quarter: 1st Length (days): 15</p>	<ul style="list-style-type: none"> -Recognize a number expression -Simplify numeric expressions -Tell whether two number expressions are equal -Recognize a number equation -Tell whether a number equation is true or false -Explain the properties of operations and numbers -Apply concepts and skills to find area 		<p>Formative:</p> <p>Summative:</p>	<p>Teacher lectures, note taking, dry erase board practice, Problem of the Day, worksheets, individual projects</p>	<p>Textbook, dry erase board, calculators (when needed), multiplication chart, and smart-board</p>	

<p>Name: Chapter 3 - Variable Expressions Pre-Algebra Quarter: 2nd Length (Days): 11</p>	<ul style="list-style-type: none"> -Identify variable expressions -Identify like terms -Simplify variable expressions -Evaluate variable expressions 	<p>ILS: National Standards: CRS: WorkKeys Skills: CCSS: 5.NBT.5, 5.NBT.6, 5.NBT.7</p>	<p>Formative: Summative:</p>	<p>Teacher lectures, note taking, dry erase board practice, Problem of the Day, worksheets, individual projects</p>	<p>Textbook, dry erase board, calculators (when needed), multiplication chart, and smart-board</p>	
<p>Name: Chapter 4 - Variable Equations Pre-Algebra Pacemaker Quarter: 2nd Length (Days): 12</p>	<ul style="list-style-type: none"> -Identify a variable equation -Tell whether two equations are equivalent -Find the solution of an equation -Solve equations by adding, subtracting, multiplying and dividing -Solve equations using more than one operation -Apply concepts and skills to solve geometry formulas 	<p>ILS: National Standards: CRS: WorkKeys Skills: CCSS: 5.NBT.5; 3.MD.7a, 3.MD7b</p>	<p>Formative: Summative:</p>	<p>Teacher lectures, note taking, dry erase board practice, Problem of the Day, worksheets, individual projects. At the end of this project students completed a worksheet project - each student had to create a worksheet including 20 problems from material in chapter 4. Once they completed their worksheet they exchanged with the other students in the class and completed each other's worksheets. Students helped each other complete each worksheet.</p>	<p>Textbook, dry erase board, calculators (when needed), multiplication chart, and smart-board</p>	
<p>Name: Chapter 5 - Decimals and Algebra Pre-Algebra Quarter: 2 & 3 Length (Days):</p>	<ul style="list-style-type: none"> -Use place value in decimals -Round decimals -Add, subtract, multiply and divide decimals -Learn how to move the decimal point -Use scientific notation 	<p>ILS: National Standards: CRS: WorkKeys Skills: CCSS: 4.OA.4; 4.NF.1; 4.NF.2; 4.NF.3A-D; 5.NF.1-2</p>	<p>Formative: Summative:</p>	<p>Teacher lecture, dry erase boards, computers, interactive smart exchange lessons, used fraction pies, fraction bars, and fraction strips to represent different pictures of fractions and to show equivalent fractions;</p>	<p>Textbook; multiplication charts; fraction pies, bars, strips; elmo; projector, poster board, markers, workbook, calculators</p>	

	<ul style="list-style-type: none"> -Simplify expressions with decimals -Evaluate expressions with decimals -Solve equations containing decimals 			drill with fraction flashcards; students created their own fraction story problems that included pictures on poster boards		
Name: Multiplying & Dividing Fractions Quarter: 3rd Length (Days): 19	<ol style="list-style-type: none"> 1.) To multiply fractions and mixed numbers 2.) To divide fractions and mixed numbers 3.) To find the reciprocal of a number 4.) To convert a fraction to a decimal 5.) To convert a decimal to a fraction 6.) To solve story problems involving fractions 	ILS: National Standards: CRS: WorkKeys Skills: CCSS: 4.NF.4a, b, c; 4.NF.6; 5.NF. 4a; 6. NS. 1	Formative:	Fraction strips; Used interactive Smart Exchange Lessons; Teacher Lecture; Dry erase board practice; Review Bean Bag Game; Story Problem Project	Textbook; multiplication chart; fraction bars; elmo; projector; dry erase boards; workbooks, calculators; Story Problem Rubric	
Name: Measurement Quarter: 3rd Length (Days): 18	<ol style="list-style-type: none"> 1.) To identify and use metric prefixes 2.) To estimate and measure metric units of length, mass, and capacity 3.) To convert metric units 4.) To convert customary units of 	ILS: National Standards: CRS: WorkKeys Skills: CCSS: 4.MD.1; 4.MD.25.MD.1	Formative:	Teacher Lecture; Interactive Smart Exchange Lesson; Conversion Stairs Chart; Gallon Man Activity; Guided Practice	Textbook, Conversion Charts; Big "G" chart; elmo; projector; Stepping Stairs Chart; Workbook; Eggspert Game; clocks with moving hands	

	length, weight, and capacity 5.) To convert units of time					
Name: Geometry Quarter: 4th Length (Days): 14	1.) To Identify, name, and draw points, lines and planes 2.) To classify, draw, and measure angles 3.) To identify, name, and draw parallel, perpendicular, and skew lines 4.) Classify various types of polygons 5.) Identify different types of triangles 6.) Classify different types of quadrilaterals 7.) Identify and name three-dimensional figures	ILS: National Standards: CRS: WorkKeys Skills: CCSS: G-CO.1; G-GMD.1; 7G.2	Formative:	Teacher Lecture; guided practice on dry erase boards and on worksheets; Measuring angles in the classroom; Create a poster that shows examples of these shapes and lines in everyday life	Textbook, Workbook, Angleside Adventure Game; Protractor, Elmo, Projector, Dry erase boards, Markers	
Name: Area and Volume Quarter: 4 th Length (Days): 16	1.) To find the circumference of circles 2.) To find the area of a parallelogram	CCSS: 6.G.1; 6.G.4; 7.G.3; 8.G.9	Formative: Summative:	Teacher Lecture, Smart Exchange Lessons; Creating 3-D models of shapes; Exploring the shapes (benign able to pull them apart into one	Textbook, Workbook, Marshmallows; Toothpicks; 3-D shape models; markers; dry erase boards; Worksheet with chart on it	

	<p>3.) To find the are of a triangle</p> <p>4.) To find the area of a circle</p> <p>5.) To find the surface area of a rectangular prism</p> <p>6.) To find the volume of a rectangular prism</p> <p>7.) To find the volume of a pyramid</p> <p>8.) To find the volume of a cylinder</p> <p>9.) To find the volume of a cone</p>			dimensional shapes); Creating a formula chart; Dry erase board practice		
<p>Name:Ratio, Proportion, and Percent</p> <p>Quarter: 4th</p> <p>Length of Days: 8</p>	<p>1.) To write and simplify ratios</p> <p>2.) To find the probability of an event</p> <p>3.) To determine if two ratios form a proportion</p> <p>4.) To solve a proportion</p>	<p>CCSS: S-IC.2; S-CP.1; S-MD.5a</p>	<p>Formative:</p> <p>Summative:</p>	<p>Teacher lecture, Smart Exchange Lesson; Flipping Coin Activity; Dry erase board practice</p>	<p>Textbook, workbook, dry erase boards, markers, coins</p>	