

Grade 7 Math Algebra Readiness

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Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
<p>CEQ:</p> <ul style="list-style-type: none"> ● HOW ARE NUMBER SENSE AND MATHEMATICAL OPERATIONS APPLIED IN PRE-ALGEBRA? ● HOW ARE ALGEBRAIC EQUATIONS SOLVED AND LINEAR RELATIONSHIPS GRAPHED? ● HOW ARE FORMULAS USED TO MEASURE SURFACE AREA AND VOLUME OF GEOMETRIC FIGURES WITH 	<p>Chapter 1: Algebraic Expressions</p> <p>A. Variable and expressions</p> <p>A1. Identify and write numerical and variable expressions</p> <p>A2. Evaluate variable expressions</p> <p>A3. Solve problems by evaluating expressions</p> <p>B. Order of operations</p>	<p>Chapter 1: Algebraic Expressions</p> <p>Learning Target #1:</p> <p>I can identify, write, and evaluate numerical and variable expressions. (7.2.3.1)</p> <p>Learning Target #2:</p> <p>I can perform the order of operations using integers. (7.2.3.3)</p> <p>Learning Target #3:</p> <p>I can represent, graph, and order integers. I can determine absolute value. (7.1.2.6, 7.1.1.3, .7.1.1.4)</p>	<p>Chapter 1: Algebraic Expressions</p> <p>A. Variables and expressions</p> <p>B. Order of operations</p> <p>C. Integers and absolute value</p> <p>CFA: Quiz on A - C</p> <p>CSA: Chapter 1 TEST on A - E</p>	<p>Chapter 1: Algebraic Expressions</p> <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Assessments:</p> <p>S:\Middle School\7th Grade\Math Stuff</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> ● absolute value ● expressions (numerical and variable) ● evaluate ● integers ● inverse operations ● order of operations

<p>CUSTOMARY AND METRIC SYSTEMS?</p> <ul style="list-style-type: none"> HOW ARE VARIOUS GRAPHS AND MEASURES OF CENTRAL TENDENCY USED TO MODEL DATA? <p>UEQ: Chapter 1 Algebraic Expressions</p> <p><i>How can I use variables and operations to write an expression?</i></p> <ul style="list-style-type: none"> <i>How are integers used to perform operations?</i> <i>What is the meaning of absolute value and how can I determine its value?</i> 	<p>B1. Apply the order of operations</p> <p>C. Integers and absolute value</p> <p>C1. Determine absolute value (7.1.2.6)</p> <p>C2. Represent and order integers (7.1.1.4, 7.1.1.5)</p> <p>D. Operations with integers</p> <p>D1. Apply rules and use models to add, subtract, multiply, and divide integers (7.1.2.2)</p> <p>E. Coordinate plane</p> <p>E1. Identify coordinates and quadrants (7.1.1.3)</p>	<p>Learning Target #4:</p> <p>I can identify the parts of a coordinate plane and graph ordered pairs. (7.1.1.3)</p>		<ul style="list-style-type: none"> variable
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<ul style="list-style-type: none"> How are points graphed in a coordinate plane? 	E2. Graph ordered pairs (7.1.1.3)			
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October

Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
<p>UEQ: Chapter 2 Solving One-Step Equations and Inequalities</p>  <ul style="list-style-type: none"> How are the properties of numbers (identity, inverse, distributive, associative, and commutative) applied? How are equations written and solved? How are inequalities written, solved, and graphed? 	<p>Chapter 2: Solving One-Step Equations and Inequalities</p> <p>A. Properties of Numbers</p> <p>A1. Identify and use properties</p> <p>A2. Apply the distributive property to numerical and algebraic expressions</p> <p>B. Variables, Variable Expressions, and Equations</p> <p>B1. Identify parts of and simplify variable expressions</p> <p>B2. Classify types of</p>	<p>Chapter 2: Solving One-Step Equations and Inequalities</p> <p>(7.2.2.4)</p> <p>Learning Target #1:</p> <p>I can identify and apply the properties of numbers (commutative, associative, identity, and distributive) (7.2.3.1)</p> <p>Learning Target #2:</p> <p>I can classify and solve one-step equations using inverse operations. (7.2.4.1)</p>	<p>Chapter 2: Solving One-Step Equations and Inequalities</p> <p>A. Properties of Numbers</p> <p>B. Variables, Variable Expressions, and Equations</p> <p>CFA: QUIZ on A - B1</p> <p>C. Solving Equations Using Operations</p> <p>D. Solving One-Step Inequalities Using Operations</p>	<p>Chapter 2: Solving One-Step Equations and Inequalities</p> <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Tests</p> <p>S:\Middle School\7th Grade\Math Stuff</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> Commutative Property Associative Property Identity Property Distributive Property Coefficient

	<p>equations</p> <p>B3. Check equations using substitution</p> <p>C. Solving Equations Using Operations</p> <p>C1. Use operations to solve equations</p> <p>D. Solving One-Step Inequalities Using Operations</p> <p>D1. Graph inequalities</p> <p>D2. Use operations to solve inequalities</p>	<p>Learning Target #3:</p> <p>I can solve and graph one-step inequalities using inverse operations. (7.2.2.4)</p>	<p>CSA: Chapter 2 Test</p>	<ul style="list-style-type: none"> ● Constant ● Like Terms ● Inverse Operations ● Equation ● Inequality ● Solution
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November

Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
<p>UEQ: Chapter 3 Decimals and Equations</p>  <ul style="list-style-type: none"> ● <i>How can decimals be used to estimate</i> 	<p>Chapter 3: Decimals and Equations</p> <p>A. Rounding and Estimating</p> <p>A1. Round Decimals</p>	<p>Chapter 3: Decimals and Equations (7.1.2.1)</p> <p>Learning Target #1:</p> <p>I can round and estimate with decimals. (7.1.2.1)</p>	<p>Chapter 3: Decimals and Equations</p> <p>A. Rounding and Estimating</p> <p>B. Solving One-Step Equations Involving</p>	<p>Chapter 3: Decimals and Equations</p> <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Tests</p> <p>S:\Middle School\7th</p>

<p><i>and solve equations?</i></p> <ul style="list-style-type: none"> • <i>How do you convert metric units of measure?</i> 	<p>A2. Estimate sums, differences, products, and quotients</p> <p>***Review All Decimal Operations</p> <p>B. Solving One-Step Equations Involving Decimals</p> <p>B1. Use the four operations to solve equations</p> <p>C. Formulas</p> <p>C1. Substitute into formulas</p> <p>D. Using Metric System</p> <p>D1. Convert Metric Units</p> <p>D2. Identify Appropriate Metric Units</p>	<p>Learning Target #2:</p> <p>I can solve one-step equations that have decimals in them. (7.2.4.1)</p> <p>Learning Target #3:</p> <p>I can substitute into and evaluate formulas. (7.2.3.2)</p> <p>Learning Target #4:</p> <p>I can convert metric units of measurement. (7.2.2.2)</p>	<p>Decimals</p> <p>CSA: Chapter 3 Test</p>	<p>Grade\Math Stuff</p> <p>Joe Decimal Movie Clips S:\Middle School\7th Grade\Math Stuff</p> <p>You Tube Video The Rappin' Mathematician Decimals http://www.youtube.com/watch?v...</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> • Compatible Numbers • Formula
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December

Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
<p>UEQ: Chapter 4 Factors, Fractions, and Exponents </p> <ul style="list-style-type: none"> • <i>How are expressions simplified using exponents?</i> • <i>How can fractions be simplified?</i> • <i>How can scientific notation be written and calculated?</i> • <i>How can problems be solved by first solving a simpler problem?</i> 	<p>Chapter 4: Factors, Fractions, and Exponents</p> <p>A. Divisibility and Factors A1. Use divisibility tests A2. Find factors</p> <p>B. Exponents B1. Use exponents B2. Apply the Order of Operations with exponents</p> <p>C. Prime Factorization and Greatest Common Factor C1. Find prime factorization C2. Determine greatest</p>	<p>Chapter 4: Factors, Fractions, and Exponents</p> <p>Learning Target #1: I can find factors using divisibility tests and prime factorization. (7.1.1.5)</p> <p>Learning Target #2: I can simplify expressions with exponents. (7.1.2.1, 7.2.3.1)</p> <p>Learning Target #3:</p>	<p>Chapter 4: Factors, Fractions, and Exponents</p> <p>A. Divisibility and Factors B. Exponents C. Prime Factorization and Greatest Common Factor D. Fractions</p> <p>CFA: QUIZ on A - D</p> <p>E. Rational Numbers F. Exponents with Multiplication and Division</p>	<p>Chapter 4: Factors, Fractions, and Exponents</p> <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Tests S:\Middle School\7th Grade\Math Stuff</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> • Prime • Composite • Factor • Divisible

	<p>common factor</p> <p>D. Fractions D1. Calculate equivalent fractions D2. Simplify fractions</p> <p>E. Rational Numbers E1. Identify rational numbers E2. Evaluate fractions containing variables</p> <p>F. Exponents with Multiplication and Division F1. Simplify expressions with integer exponents</p>	<p>I can simplify fractions with numbers and variables. (7.1.1.5)</p> <p>Learning Target #4:</p> <p>I can identify and evaluate expressions using rational numbers. (7.2.3.2)</p>	<p>CSA= Chapter 4 Unit Test</p>	<ul style="list-style-type: none"> ● Exponents ● Rational Number ● Prime Factorization ● Greatest Common Factor (GCF)
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start December and finish January


Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
<p>UEQ: Chapter 5 Operations with Fractions </p> <ul style="list-style-type: none"> ● How are operations performed with fractions? 	<p>Chapter 5: Operations with Fractions</p> <p>A. Rational Numbers A1. Compare and Order</p>	<p>Chapter 5: Operations with Fractions</p>	<p>Chapter 5: Operations with Fractions</p> <p>A. Rational Numbers B. Fractions and Decimals C. Operations with</p>	<p>Chapter 5: Operations with Fractions</p> <p>Prentice Hall Mathematics: Algebra Readiness</p>

<ul style="list-style-type: none"> • How are fractions used to solve equations? • How are powers of products and quotients found? 	<p>B. Fractions and Decimals B1. Convert fractions to decimals B2. Convert decimals to fractions</p> <p>C. Operations with Fractions C1. Add C2. Subtract</p> <p>E. One-Step Equations E1. Solve equations by adding or subtracting fractions</p> <p>C. Operations with Fractions C3. Multiply C4. Divide</p> <p>E. One-Step Equations E2. Solve equations by multiplying fractions</p>	<p>(7.1.2.1)</p> <p>Learning Target #1:</p> <p>I can convert, order, and graph fractions and decimals. (7.1.1.1, 7.1.1.5, 7.1.1.2)</p> <p>Learning Target #2:</p> <p>I can add, subtract, multiply, and divide fractions. (7.1.2.1)</p> <p>Learning Target #3:</p> <p>I can solve equations by adding, subtracting, multiplying, and dividing fractions. (7.2.4.1)</p> <p>Learning Target #4:</p> <p>I can find powers of products and quotients. (7.2.3.2)</p>	<p>Fractions C1. Add C2. Subtract</p> <p>E. One-Step Equations E1. Solve equations by adding or subtracting fractions</p> <p>CFA: Quiz on A - C2 and E1</p> <p>C. Operations with Fractions C3. Multiply C4. Divide</p> <p>E. One-Step Equations E2. Solve equations by multiplying fractions</p> <p>CSA: Test on Chapter 5</p>	<p>Unit Tests S:\Middle School\7th Grade\Math Stuff</p> <p>Learning Target Examples: S:\Middle School\7th Grade\Math Stuff</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> • Multiple • Least Common Multiple (LCM) • Reciprocal • Repeating Decimal • Terminating Decimal
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<p style="text-align: center;">UEQ: Chapter 6</p> <p style="text-align: center;">Ratios, Proportions, and Percents</p> <p><i>How are percents used and found?</i></p>	<p>F. Powers of fractions</p> <p>Chapter 6: Ratios, Proportions, and Percents</p> <p>A. Ratios and Unit Rates A1. Determine ratios A2. Solve unit rates</p> <p>B. Proportions B1. Solve proportions B2. Apply proportions to problem solving</p> <p>C. Similar Figures and Scale Drawings C1. Determine unknowns in similiar figures C2. Determine unknowns in scale drawings</p> <p>D. Fractions, Decimals, and Percents D1. Write percents as fractions and decimals D2. Write decimals as fractions and percents D3. Order rational</p>	<p>Chapter 6: Ratios, Proportions, and Percents</p> <p>Learning Target #1:</p> <p>I can write and simplify ratios and rates. (7.2.2.1)</p> <p>Learning Target #2:</p> <p>I can write and solve proportions. (7.1.2.5)</p> <p>Learning Target #3:</p> <p>I can change between and order fractions, decimals, and percents. (7.1.1.3, 7.2.2.4)</p> <p>Learning Target #4:</p> <p>I can solve equations resulting from proportional</p>	<p>Chapter 6: Ratios, Proportions, and Percents</p> <p>A. Ratios and Unit Rates</p> <p>*Customary Units of Measure *Convert between customary units *Apply dimensional analysis</p> <p>B. Proportions</p> <p>C. Similar Figures and Scale Drawings</p> <p>CFA: Quiz on A - C</p> <p>D. Fractions, Decimals, and Percents</p> <p>E. Percents with Proportions and Equations</p> <p>F. Percent of Change</p>	<p>Chapter 6: Ratios, Proportions, and Percents</p> <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Tests S:\Middle School\7th Grade\Math Stuff</p> <p>Percent of Decrease Biggest Loser You Tube clip http://www.youtube.com/ watch?v=FxFynAO6I6w &feature=related</p> <p>http://www.youtube.com/ watch?v=LdyK9121NQo &feature=related</p> <p>Learning Target Examples:</p>
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	<p>numbers</p> <p>E. Percents with Proportions and Equations E1. Find parts, wholes, and percents with proportions E2. Find parts, wholes, and percents with equations</p> <p>F. Percent of Change F1. Determine percent of increase F2. Determine percent of decrease</p> <p>G. Markup and Discount G1. Calculate markup G2. Calculate discount</p>	<p>relationships in various contexts. (7.2.4.2)</p> <p>Learning Target #5:</p> <p>I can use proportions to solve percent applications. (7.2.2.2)</p> <p>Learning Target #6:</p> <p>I can use properties of similar figures to determine side lengths of similar figures using scale factor. (7.3.2.1, .7.2.2.3, 7.3.2.2)</p>	<p>G. Markup and Discount</p> <p>CSA: Chapter 6 Test</p>	<p>S:\Middle School\7th Grade\Math Stuff</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> ● Ratios ● Unit Rates ● Percent ● Proportion ● Markup ● Discount ● Commission ● Scale Drawing ● Similar Figure ● Percent of Change
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February

Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
<p>UEQ: Chapter 7 Solving Equations and Inequalities </p> <ul style="list-style-type: none"> How are multi-step equations written and solved? <p>How are two-step inequalities written and solved?</p> <p>How are simple and compound interest calculated?</p>	<p>Chapter 7: Solving Equations and Inequalities</p> <p>A. Multi-Step Equations A1. Use properties to solve multi-step equations A2. Combine like terms A3. Apply the distributive property A4. Solve multi-step equations with fractions and decimals A5. Apply the writing equations problem solving strategy</p> <p>B. Equations with Variables on Both Sides B1. Solve equations B2. Use equations</p> <p>C. Two-Step Inequalities C1. Solve inequalities C2. Use inequalities</p>	<p>Chapter 7: Solving Equations and Inequalities</p> <p>Learning Target #1:</p> <p>I can write and solve multi-step equations like these: (7.2.4.1) $4(m-7) + 5m = 6m + 2$</p> <p>Learning Target #2:</p> <p>I can write and solve two-step inequalities like these: $6a + 3 > 27$ (7.2.2.4)</p> <p>Learning Target #3:</p> <p>I can calculate simple and compound interest. (7.1.2.4, .7.1.2.3)</p>	<p>Chapter 7: Solving Equations and Inequalities</p> <p>A. Multi-Step Equations</p> <p>CFA: Quiz on A</p> <p>B. Equations with Variables on Both Sides C. Two-Step Inequalities D. Transforming Formulas</p> <p>CFA: Quiz on B - D</p> <p>E. Simple and Compound Interest</p> <p>CSA: Chapter 7 Test</p>	<p>Chapter 7: Solving Equations and Inequalities</p> <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Tests S:\Middle School\7th Grade\Math Stuff</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> Interest Simple Interest Compound Interest Interest Rate Principal


	<p>D. Transforming Formulas D1. Solve formulas D2. Use formulas</p> <p>E. Simple and Compound Interest E1. Solve simple-interest E2. Solve compound-interest</p>			
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March

Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
<p>UEQ: Chapter 8 Linear Functions and Graphing  </p> <ul style="list-style-type: none"> • <i>When is a relation a function?</i> • <i>How are linear equations and inequalities solved?</i> • <i>How are systems of linear equations and inequalities solved?</i> • <i>How is a problem solved by graphing?</i> <p>A. Relations and Functions B. Equations with Two Variables C. Slope and Y-Intercept D. Rules for Linear Functions</p>	<p>Chapter 8 Linear Functions and Graphing</p> <p><i>Skip Lesson 8-1 (Incorporate the Vertical Line Test from this lesson in Lessons 2 and 3)</i></p> <p>B. Equations with Two Variables B1. Solve two-variable equations B2. Graph two-variable equations</p> <p>C. Slope and Y-Intercept C1. Determine slope and y-intercept C2. Use slope and y-intercept to graph linear equations</p> <p>D. Rules for Linear Functions <i>(SKIP Example 1 from Lesson 8-4 for Regular Classes)</i></p>	<p>Chapter 8 Linear Functions and Graphing</p> <p>Learning Target #1:</p> <p>I can write, graph, and identify the parts of linear equations like these:</p> $y = 2x - 3 \quad \text{or} \quad y = -2x + 7$ <p>(7.2.2.1)</p> <p>Learning Target #2:</p> <p>I can use the slope-intercept form of linear equations/graphs/tables. (7.2.2.1)</p> <p>Learning Target #3:</p> <p>I can identify proportional relationships by a graph,</p>	<p>Chapter 8 Linear Functions and Graphing</p> <p>A. Vertical Line Test B. Equations with Two Variables C. Slope and Y-Intercept D. Rules for Linear Functions</p> <p>A-D. Summative Quiz #1 - short answer (CSA)</p>	<p>Chapter 8 Linear Functions and Graphing</p> <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Tests S:\Middle School\7th Grade\Math Stuff</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> • Function • Linear Equation • Linear Inequality • Slope • Y-Intercept • Slope - Intercept Form • Constant of Variation • Direct Variation

	D2. Write rules from tables and graphs	equation or table. (7.2.1.1, .7.2.1.2)		
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April

Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
<p>UEQ: Chapter 9: Spatial Thinking </p> <ul style="list-style-type: none"> • <i>How are properties of figures used to solve problems?</i> • <i>How are geometric figures classified?</i> • <i>How can drawing a diagram help to solve a problem?</i> <p>A. Points, Lines, and Planes B. Angles and Parallel Lines C. Polygons D. Congruence E. Circles</p>	<p>Chapter 9: Spatial Thinking</p> <p>D. Congruence D1. Identify corresponding parts D2. Identify congruent triangles</p> <p>E. Circles E1. Find circumference E2. Construct circle graphs</p> <p>F. Translations F1. Graph translations F2. Describe translations</p> <p>G. Symmetry and Reflections</p>	<p>Chapter 9: Spatial Thinking</p> <p>Learning Target #1: I can identify the congruent parts of triangles. (7.3.2.1)</p> <p>Learning Target #2: I can find the circumference of a circle. (7.3.1.1)</p> <p>I can make a circle graph using central angles. (7.4.2.1)</p>	<p>Chapter 9: Spatial Thinking</p> <p>D. Congruence E. Circles F. Translations G. Symmetry and Reflections</p> <p>CA= Chapter 9, Lessons 5-6, and 8-9 Summative QUIZ -short answer (CSA)</p>	<p>Chapter 9: Spatial Thinking</p> <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Tests S:\Middle School\7th Grade\Math Stuff</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> • Congruence • Circumference • Radius • Diameter • Symmetry

<p>F. Translations G. Symmetry and Reflections</p> <p>UEQ: Selected Lessons from Chapter 12 Data Analysis and Probability</p> <p><i>How are graphs used to represent data?</i> <i>How are theoretical and experimental probability determined?</i></p> <p>A. Frequency Tables, Line Plots, and Histograms, Stem and leaf plots B. Counting Outcomes and Theoretical Probability C. Mean, Median, Mode, Range, Outlier</p>	<p>G1. Identify lines of symmetry G2. Graph reflections</p> <p>A. Frequency Tables, Line Plots, and Histograms A1. Use frequency tables and line plots A2. Display data using histograms</p> <p>A3. Display data in a stem and leaf plots</p> <p>B. Counting Outcomes and Theoretical Probability B1. Count possible choices B2. Determine probability by counting outcomes</p> <p>C. Mean, median, mode, range, outlier C1. Calculate mean, median, mode, range C2. Calculate how the outlier affects the mean</p>	<p>Learning Target #3:</p> <p>I can graph transformations (translations and reflections) on a coordinate plane. (7.3.2.4)</p> <p>Chapter 12: Data Analysis and Probability</p> <p>Learning Target #1:</p> <p>I can display data in frequency tables, line plots, histograms, stem and leaf plots. (7.4.1.1)</p> <p>Learning Target #2:</p> <p>I can calculate probability. (7.4.1.1)</p> <p>Learning Target #3:</p> <p>I can calculate mean, median, mode, range, and outlier. (7.4.1.2)</p>	<p><i>A. Frequency Tables, Line Plots, and Histograms</i> <i>B. counting outcomes and theoretical probability</i> <i>C. mean, median, mode, range, outlier</i> <i>A-C. Quiz, 10 questions short answer (CFA)</i></p>	<ul style="list-style-type: none"> ● Reflection ● Translation <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Tests S:\Middle School\7th Grade\Math Stuff</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> ● Mean ● Median ● Mode ● Range ● Outlier ● Histogram ● Line plot ● Frequency table ● Probability ● Independent event ● Dependent event ●
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May

Content	Skills	Learning Targets (Aligned to State Standards)	Assessment	Resources & Technology
<p>UEQ: Chapter 10 Area and Volume</p> <ul style="list-style-type: none"> <i>How is the volume of 3-D figures calculated?</i> <p>A. Area: Parallelograms B. Area: Triangles and Trapezoids C. Area: Circles</p> <p>D. Surface Area: Prisms and Cylinders E. Volume: Prisms and Cylinders</p>	<p>Chapter 10: Area and Volume</p> <p>A. Area: Parallelograms A1. Calculate area of rectangles A2. Calculate area of parallelograms</p> <p>B. Area: Triangles and Trapezoids B1. Determine area of triangles B2. Determine area of trapezoids</p> <p>C. Area: Circles C1. Find area of circles C2. Find area of irregular figures</p> <p>D. Surface Area: Prisms and Cylinders D1. Calculate surface area of prisms</p>	<p>Chapter 10: Area and Volume</p> <p>Learning Target #1: I can find the area of parallelograms, triangles, trapezoids and circles. (7.3.2.2)</p> <p>Learning Target #2: I can find the surface area of prisms and cylinders. (7.3.1.2)</p> <p>Learning Target #3:</p>	<p>Chapter 10: Area and Volume</p> <p>A. Area: Parallelograms B. Area: Triangles and Trapezoids C. Area: Circles</p> <p>A-C. Summative Quiz #1 - short answer (CSA)</p> <p>D. Surface Area: Prisms and Cylinders</p> <p>E. Volume: Prisms and Cylinders</p> <p>D-E. Summative Quiz #2 - short answer (CSA)</p>	<p>Chapter 10: Area and Volume</p> <p>Prentice Hall Mathematics: Algebra Readiness</p> <p>Unit Tests S:\Middle School\7th Grade\Math Stuff</p> <p>Key Vocabulary:</p> <ul style="list-style-type: none"> • Area • Lateral Area • Surface Area • Volume

<p>UEQ: Chapter 11 Right Triangles in Algebra</p> <p><i>How is the square root of numbers determined?</i></p> <p><i>How are the missing measures of right triangles calculated?</i></p> <p><i>How are the distance and midpoint formulas applied?</i></p> <p>A. Square Roots and Irrational Numbers B. Pythagorean Theorem C. Distance and Midpoint Formulas D. Special Right</p>	<p>D2. Calculate surface area of cylinders E. Volume: Prisms and Cylinders E1. Find volume of prisms E2. Find volume of cylinders</p> <p>F. Find the probability of geometric shapes</p> <p>A. Square Roots and Irrational Numbers A1. Find square roots A2. Classify real numbers</p> <p>B. Pythagorean Theorem B1. Apply the Pythagorean Theorem B2. Identify right triangles</p> <p>C. Distance and Midpoint Formulas C1. Find distance C2. Find midpoint</p> <p>D. Special Right Triangles D1. Use 45-45-90 triangles D2. Use 30-60-90 triangles</p> <p>E. Sine, Cosine, and Tangent Ratios E1. Find ratios in right triangles E2. Apply ratios to solve</p>	<p>I can find the volume of prisms and cylinders. (7.3.1.2)</p> <p>Learning Target #4:</p> <p>I can find the area of circles and sectors. (7.3.1.1.)</p> <p>Chapter 11: Area and Volume</p> <p>Learning Target #1:</p> <p>I can find square roots. (7.1.1.1)</p> <p>Learning Target #2:</p> <p>I can use pythagorean theorem and other triangle</p>	<p><i>A. Square Roots and Irrational Numbers</i> <i>B. Pythagorean Theorem</i> <i>C. Distance and Midpoint Formulas</i> <i>A-C. Checkpoint Quiz #1 - short answer (CFA)</i></p> <p><i>D. Special Right Triangles</i> <i>E. Sine, Cosine, and Tangent Ratios</i> <i>F. Angles of Elevation and Depression</i></p> <p><i>CA= Chapter 11 Unit Test - short answer (CSA)</i></p>	<ul style="list-style-type: none"> ● Cylinder ● Prism
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<p>Triangles E. Sine, Cosine, and Tangent Ratios F. Angles of Elevation and Depression</p>	<p>problems</p> <p>F. Angles of Elevation and Depression F1. Use sine, cosine, and tangent to determine angle of elevation F2. Use sine, cosine, and tangent to determine angle of depression</p>	<p>properties to find missing side lengths</p> <p>Learning Target #3:</p> <p>I can use trigonometric ratios to solve real life triangle problems.</p> <p>Learning Target #4:</p> <p>I can determine the difference between rational and irrational numbers. (7.1.1.1)</p>		
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