



BJU Press - 8th Grade - Pre-Algebra - Quarter 3 Map

Week	Unit/ Lessons	Submit	Objectives
Week 1	Chapter 8: Applying Equations and Inequalities	Submit Lesson 8.2 p 321	Students will be able to.... Chapter Review and Test Chapter 8: Applying Equations and Inequalities Section 8.1: Simplifying Equations <ol style="list-style-type: none">1. Solve equations requiring the use of the Distributive Property in order to eliminate parentheses and combine like terms. Section 8.2: Variables on Both Sides <ol style="list-style-type: none">1. Solve an equation with variables on both sides. Section 8.3: Applying Equations <ol style="list-style-type: none">1. Write and solve advanced equations using information presented in a word problem.2. Write and solve equations for word problems involving consecutive integers, consecutive even integers and consecutive odd integers.3. Write and solve equations for word problems using $d=rt$, including those requiring the rate to be adjusted due to wind or current.
Week 2	Chapter 8: Applying Equations and Inequalities cont.		Students will be able to.... Section 8.4: Solving Inequalities <ol style="list-style-type: none">1. Solve and graph an inequality requiring at least two steps. Section 8.5: Applying Inequalities <ol style="list-style-type: none">1. Write and solve inequalities for problem situations.2. Apply the trichotomy axiom to problem situations Chapter 8 Review and Test

Week 3	Chapter 9 : Relations and Functions		<p>Students will be able to</p> <p>Section 9.1: The Coordinate Plane</p> <ol style="list-style-type: none"> 1. Name the parts of the coordinate plane 2. Graph points on the coordinate plane <p>Section 9.2: Relations</p> <ol style="list-style-type: none"> 1. Find the domain and range of a relation. 2. Write ordered pairs from a relation given as a graph or as an equation. <p>Section 9.3 Functions</p> <ol style="list-style-type: none"> 1. Determine whether or not a relation is a function using a listing of the relation, circle mappings, or a graph of the relation. 2. Use standard function notation to find a range value. 3. Determine whether or not a relation is a function using the vertical line test. <p>Section 9.4 Graphing Linear Functions</p> <ol style="list-style-type: none"> 1. Determine whether or not a point is a solution for a given equation. 2. Graph a function using a table of values. <p>Section 9.5 Slope</p> <ol style="list-style-type: none"> 1. Determine the slope of a line from its graph. 2. Determine the slope of a line using the slope formula.
Week 4	Chapter 9 : Relations and Functions	Submit chapter 9 Test.	<p>Students will be able to....</p> <p>Section 9.6 Slope-Intercept Form</p> <ol style="list-style-type: none"> 1. Find the coordinates of the x- and y- intercepts for a line written in standard form and use the intercepts to graph the line. 2. Change a linear equation to slope-intercept form and use the slope-intercept form to graph the line. <p>Section 9.7 Direct Variation</p> <ol style="list-style-type: none"> 1. Identify a direct variation equation and state the constant of variation. 2. Graph a direct variation equation. 3. Find the constant of variation (k) when the values of x and y are given. <p>Section 9.8 Graphing Linear Inequalities in the Plane.</p> <ol style="list-style-type: none"> 1. Graph a linear inequality. <p>Chapter 9 Review Chapter 9 Test</p>
Week 5	Chapter 10 Statistics and Reality		<p>Students will be able to....</p> <p>Chapter 10 Section 10.1 Statistical Measures</p> <ol style="list-style-type: none"> 1. Identify a group of objects as most likely a population or as a sample. 2. Identify the type of sample begin described. <p>Section 10.1 Statistical Measures</p> <ol style="list-style-type: none"> 1. Identify a group of objects as most likely a population or as a sample.

			<ol style="list-style-type: none"> 2. Identify the type of sample being described. 3. Find the range, mean, median and mode for a set of data. <p>Section 10.2 Diagramming Data</p> <ol style="list-style-type: none"> 1. Find the quartiles and the interquartile range for a set of data. 2. Construct a box-and-whisker diagram for a set of data. 3. Construct a stem-and-leaf diagram and a scatterplot for a set of data. <p>Section 10.3 Histograms</p> <ol style="list-style-type: none"> 1. Construct a frequency distribution table, an interval frequency table, or a histogram for a set of data.
Week 6	Chapter 10 Statistics and Reality cont.		<p>Students will be able to....</p> <p>Section 10.4 Graphing Data</p> <ol style="list-style-type: none"> 1. Interpret information from a bar graph, line graph, and pie chart. 2. Select the best graph or diagram with which to represent a set of data 3. Construct a bar graph, line graph, or pie chart from a set of data. <p>Section 10.5</p> <ol style="list-style-type: none"> 1. Use a tree diagram to list all possible outcomes. 2. Use the Fundamental principle of Counting to find the total number of possible outcomes. <p>Section 10.6 Permutations</p> <ol style="list-style-type: none"> 1. Evaluate a factorial. 2. Find the number of permutations using the formula. <p>Section 10.7 Combinations</p> <ol style="list-style-type: none"> 1. Identify whether a given situation requires a permutation or a combination. 2. Find the number of combinations using the formula. <p>Section 10.8 Probability</p> <ol style="list-style-type: none"> 1. Find the probability that an event will occur.
Week 7	Chapter 10 Statistics and Reality cont. AND Chapter 11: Radicals	Submit Chapter 10 Test.	<p>Students will be able to....</p> <p>Section 10.9 Independent and Dependent Events</p> <ol style="list-style-type: none"> 1. Find the probability of dependent events occurring. 2. Find the probability of independent events occurring. <p>Chapter Review and Test</p> <p>Section 11.1 Square roots</p> <ol style="list-style-type: none"> 1. Find the square root of a perfect square. 2. Estimate an irrational square root by determining the two consecutive numbers it lies between. 3. Estimate an irrational square root to the nearest tenth. 4. Evaluate an expression of continuous rational radicals. <p>Section 11.2 Radical Equations</p> <ol style="list-style-type: none"> 1. Solve a radical equation and determine whether the solution is valid.

Week 8	Chapter 11: Radicals cont.	Lesson 11.5 "Skill Check 4" pages 473-474.	<p>Students will be able to.</p> <p>Section 11.3 Equations with Exponents</p> <ol style="list-style-type: none"> 1. Solve an equation containing a variable with an exponent. <p>Section 11.4 the Pythagorean Theorem</p> <ol style="list-style-type: none"> 1. Use the Pythagorean theorem to find the unknown side of a right triangle. 2. Use the converse of the Pythagorean theorem to determine whether or not three side lengths form a right triangle. <p>Section. 11.5 Products and Quotients of Radicals</p> <ol style="list-style-type: none"> 1. Simplify a radical by removing perfect square factors. 2. Simplify a product containing radicals. <p>Section 11.6 Sums and Differences of Radicals.</p> <ol style="list-style-type: none"> 1. Add and subtract radical expressions.
Week 9	Chapter 11: Radicals cont AND	Submit Chapter 11 Test	<p>Students will be able to</p> <p>Section 11.7 Cube Roots</p> <ol style="list-style-type: none"> 1. Find the cube root of a perfect cube. 2. Estimate an irrational cube root by determining the two consecutive numbers it lies between. 3. Estimate an irrational cube root to the nearest tenth. <p>Chapter Review and Test</p>