



BJU Press - 6th Grade - Math - Quarter 3 Map

Week	Unit/ Lessons	Project/ Activity	Modification	Submit	Objectives
1	Lessons 92-96		Do lessons 90 and 91 together, do even questions in 91	Test 9	Chapter 9 Test *Write a numerical or an algebraic expression for a word phrase *Demonstrate an understanding of algebraic expressions with more than one operation *Evaluate an expression using substitution *Use the Order of Operations to evaluate expressions *Demonstrate an understanding of equations *Write an equation with two equal expressions *Determine the unknown in a word problem and write it as a variable in an equation *Evaluate and relate expressions using $>$ $<$ or *Demonstrate an understanding of the commutative and associative properties of addition and of multiplication *Simplify algebraic expressions using manipulative *Apply the Commutative and Associative Properties to simplify algebraic expressions *Solve addition and subtraction equations using inverse operations *Check addition and subtraction equations using subtraction
2	Lessons 92-96		Do lessons 95 and 96 together, do evens in 96	Lesson 95	*Solve multiplication equations using division (inverse operation) *Check multiplication equations using substitution *Write an equation with a variable to solve a word problem *Solve multiplication and division equations using inverse operations *Check multiplication and division equations using substitution *Write an equation with a variable to solve a word problem *Demonstrate an understanding of inequalities *Picture an inequality on a number line *Determine whether a given number is a solution to an inequality *Demonstrate an understanding of the Distributive Property of Multiplication over Addition *Apply the Distributive Property of Multiplication over addition to find equivalent expressions *Solve equations using inverse operations

					<p>*Calculate the distance traveled given the rate and the time the rate of travel given the distance and the time traveled and the time traveled given the distance and the rate</p> <p>*Complete a table using the formula $d=rt$, create a line graph relating to the formula $d=rt$;</p> <p>Chapter review</p>
3	Lessons 97-101		Do lessons 100 and 101 together		<p>Chapter 10 Test; calculate</p> <p>*Calculate the perimeter of a polygon using formula, calculate the unknown length of a side of a polygon</p> <p>*Solve an algebraic expression to find the perimeter of a rectangles</p> <p>*Develop an understanding of the relationship between the diameter and circumference of a circle</p> <p>*Calculate the circumference of a circle using a formula</p> <p>*Calculate the diameter of a circle given the circumference, relate circumference to real-life situations</p> <p>*Calculate the area of rectangles squares and parallelograms using a formula</p> <p>*Calculate the area of a complex figure</p> <p>*Calculate the unknown side (length or width) of a rectangle or a square, relate area to real-life situations</p> <p>*Calculate the area of triangles using a formula</p> <p>*Calculate the area of a complex figure</p> <p>*Calculate the unknown height or base of a triangle</p> <p>*Relate area to real-life situations</p>
4	Lessons 102-105				<p>*Calculate the area of a circle using a formula</p> <p>*Estimate the area of a circle, relate area to real-life situations</p> <p>*Name the 3-dimensional figure that can be formed from a net</p> <p>*Calculate the surface area of rectangular square and triangular prisms using formulas</p> <p>*Construct a triangular prism *Relate surface area to real-life situations</p> <p>*Calculate the surface area of rectangular square and triangular prisms using formulas</p> <p>*Calculate the surface area of a cylinder using formulas</p> <p>*Construct a cylinder net, relate surface area to real-life situations</p> <p>*Recognize the perimeter can vary for a fixed area</p> <p>*Calculate the area and perimeter of a rectangle</p> <p>*Calculate the area of a complex figure</p> <p>*Create a basic floor plan from a fixed area, relate geometry to real-life situations</p>
5	Lessons 106-109				<p>Chapter review;</p> <p>Chapter 11 Test; develop an understanding of volume</p> <p>*Find the volume of a rectangular prism using a model</p> <p>*Calculate the volume of a rectangular prism using a formula</p> <p>*Relate volume to real-life situations</p> <p>*Develop an understanding of the volume of a cube (square Prism)</p> <p>*Find the volume of a cube using a model</p>

					<ul style="list-style-type: none"> *Calculate the volume of a cube using a formula *Calculate the unknown measurement of a rectangular prism, relate volume to real-life situations
6	Lessons 110-113			Test 12	<ul style="list-style-type: none"> *Find the volume of an irregular prism using a model *Calculate the volume of a triangular prism and of a cylinder using formulas *Relate volume to real-life situations *Relate volume to real-life situations *Recognize that surface area can vary for a fixed volume *Calculate the volume and the lateral surface area of a rectangular prism and a cylinder *Recognize the volume can carry for a fixed lateral surface area; <p>Chapter 12 Review; Chapter 12 Test</p>
7	Lessons 114-117				<ul style="list-style-type: none"> *Write a ratio in three forms word form ratio form fraction form *Write ratios to describe part-to-part-to whole and whole-to-part comparisons *Find equivalent ratios *Determine the unit rate *Find an equivalent ratio using the unit rate *Use ratios to represent real-life situations and to solve problems *Complete a ratio table, find equivalent ratios *Make a ratio table *Solve problems using ratio tables *Use ratios to represent real-life situations and try to solve problems *Develop an understanding of proportions in similar figure *Solve for a missing term in a proportion *Find the unknown measure in similar figures using proportions, use indirect measurement find the unknown measure in similar objects *Use ratios to represent real-life situations and to solve problems

8	Lessons 118-122	Do lessons 121 and 122 together			<ul style="list-style-type: none"> *Find actual measurements using a scale and a scale drawing map or model *Determine the unknown measure on a scale drawing given the scale and the actual measurement *Solve word problems using ratios *Develop an understanding of percent using models *Express presents as ratios decimals and fractions in lowest terms *Express decimals and fractions as percents *Compare to decimals and fractions using $>$ $<$ or $=$ *Solve percent word problems using proportions *Find a percent of a number using an equation a model and a proportion *Solve percent word problems *Find the unknown whole in a percent problem using a model and equation and a proportion *Solve percent word problems; calculate the distance given the rate of speed and the time that rate of speed given the distance and the rate of speed *Rename to calculate distance rate of speed or time *Find an equivalent rate using a proportion
9	Lessons 123-127			Test 13	<p>Chapter 13 Review; Chapter 13 test; demonstrate an understanding of linear units inch foot yard and mile</p> <ul style="list-style-type: none"> *Estimate measurement using benchmarks *Measure to the nearest: inch half inch fourth inch eighth inch and sixteenth inch *Convert linear measurements to smaller or larger units *Find a fraction of a measurement unit *Add and subtract linear measurements *Demonstrate an understanding of units of weight: pound ounce and ton *Read a spring scale *Demonstrate an understanding of units of capacity: fluid ounce,cup, quart and gallon *Convert weight and capacity measurements to smaller or larger units *Find a fraction of a measurement unit *Add and subtract weight and capacity measurements