

UNITS OF STUDY	STANDARDS, BENCHMARKS, GLCEs OR HSCES	BIG IDEAS / KEY CONCEPTS	ASSESSMENTS		LEARNING STRATEGIES <i>Skills</i>	CONTENT ACTIVITIES <i>Knowledge</i>	VOCABULARY	INSTRUCTIONAL RESOURCES
			FOR LEARNING <i>(Formative)</i>	OF LEARNING <i>(Summative)</i>				
	1st Trimester							Textbook: Connected Mathematics Program 2 Publisher: Prentice Hall Copyright: 2006
	Stretching and Shrinking							
<i>Similar Figures</i>	G.TR.07.03 Understand that in similar polygons, corresponding angles are congruent and the ratios of corresponding sides are equal; understand the concepts of similar figures and scale factor.	Congruent Polygons	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Discover properties of similar polygons	Identify polygons are similar if they have the same shape and have corresponding angles or sides	Similar Image Corresponding Ratio Rep-Tile	Stretching and Shrinking Investigation: 1 - 4
	G.TR.07.04 Solve problems about similar figures and scale drawings.	Similar Figures	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Calculate distances on a map Given two polygons, find missing side lengths	Find missing lengths using similar polygons	Similar Image Corresponding Ratio Rep-Tile	Stretching and Shrinking Investigation: 1 - 4
	G.TR.08.09 Understand the definition of a dilation from a point in the plane. Relate the definition of a dilation from a point in the plane to the definition of similar polygons.	Similar figures and dilations	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Use dilations to form similar polygons.	See that similar figures can be dilations.	Similar figures dilations	Stretching and Shrinking Investigation: 1 - 2
	G.TR.07.06 Understand and use the fact that when two triangles are similar with scale factor of r, their areas are related by a factor of r^2 .	Scale Factor Relationships	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Use scale factor to calculate area of triangles	Given two similar triangles, the areas are related by scale factor squared	Similar Image	Stretching and Shrinking Investigation: 3
	N.FL.07.05 Solve proportion problems using such methods as unit rate scaling, finding equivalent fractions and solving the proportion equation $a/b=c/d$. Know how to see patterns about proportional situations in tables.	Scale Facotrs	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Use proportions to find corresponding parts.	Understand that corresponding parts can be found using scale factors and proportions.	Corresponding parts Scale Factors Proportions	Stretching and Shrinking Investigation: 3-4
	G.TR.07.05 Show that two triangles are similar using the criteria: corresponding angles are congruent (AAA similarity); the ratios of two pairs of corresponding sides are equal and the included angles are congruent (SAS similarity); ratios of all pairs of corresponding sides are equal (SSS similarity); use these criteria to solve problems and to justify arguments.	Similar Triangles	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Relationships between similar triangles	Identify properties of similar triangles	Ratio Equivalent Ratio Congruent Corresponding Pairs	Stretching and Shrinking Investigation: 4 Supplemented material needed for any and all criteria (AAA, SAS, SSS) not shown in CMP2 book

	Comparing and Scaling							
<i>Ratios</i>	N.FL.07.05 Solve proportion problems using such methods as unit rate, scaling, finding equivalent fractions, and solving the proportion equation $a/b = c/d$; know how to see patterns about proportional situations in tables.	Solving Proportions	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Find and interpret unit rates, and know how to make comparisons Use proportional reasoning to solve problems Use unit rates to write an equation to represent a pattern in a data table	Ability to set up and solve proportions Understand the four types of comparison statements: ratio, percent, fraction, and difference Scaling up or down to find equivalent ratios	Unit Rate Rate Scaling Equivalent Fractions Proportion	Comparing and Scaling Investigation: 4
	N.FL.07.03 Calculate rates of change including speed.	Rates of change	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Find rates of change.	Ability to set up and solve proportions To find rates of change.	Unit rate Proportions	Comparing and Scaling Investigation: 3
	N.FL.08.11 Solve problems involving ratio units, such as miles per hour, dollars per pound or persons per square mile.	Ratios	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Solve problems involving ratio units	Understand the concept of ratios.	Ratios Units	Comparing and Scaling Investigation: 3
	N.MR.07.04 Convert ratio quantities between different systems of units, such as feet per second to miles per hour.	Converting Ratios	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Moving between equivalent units	Rate tables, graphs, and equations are different representations of data	Ratio Proportion	Comparing and Scaling Investigation: 3
	2nd Trimester							
	Moving Straight Ahead							
<i>Linear Functions</i>	N.FL.07.03 Calculate rates of change including speed.	Rates of Change	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Investigate walking rate and slope	Calculation of rates of change	Linear Functions Linear Relationship Independent Variable Dependent Variable	Moving Straight Ahead Investigation: 1
	N.FL.07.05 Solve proportion problems using such methods as unit rate scaling, finding equivalent fractions and solving the proportion equation $a/b=c/d$. Know how to see patterns about proportional situations in tables.	Unit Rates	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Solve proportion problems using such methods as unit rate	Identify the unit rate as a rate of change in a linear relationship.	Unit Rate Rate of Change	Moving Straight Ahead Investigation: 1

	A.PA.07.01 Recognize when information given in a table, graph, or formula suggests a directly proportional or linear relationship.	Linear Relationships	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Demonstrate a direct proportion or linear relationship from information in tables, graphs, and formulas	Identify linear relationships in tables, graphs, and equations	x-intercept y-intercept Coefficient	Moving Straight Ahead Investigation: 1-2
	A.RP.07.02 Represent directly proportional and linear relationships using verbal descriptions, tables, graphs, and formulas, and translate among these representations.	Linear Representations	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Discuss linear relationships and direct proportions	Construct tables, graphs, and equations for linear relationships	x-intercept y-intercept Coefficient	Moving Straight Ahead Investigation: 1- 2
	A.PA.07.05 Recognize and use directly proportional relationships of the form $y = mx$, and distinguish from linear relationships of the form $y = mx + b$, b non-zero; understand that in a directly proportional relationship between two quantities one quantity is a constant multiple of the other quantity.	Proportional Relationships	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Compare directly proportional relationships to linear relationships	Ability to recognize directly proportional relationships to linear relationships	Directly Proportional	Moving Straight Ahead Investigation: 1 - 2
	A.PA.07.06 Calculate the slope from the graph of a linear function as the ratio of “rise/run” for a pair of points on the graph, and express the answer as a fraction and a decimal; understand that linear functions have slope that is a constant rate of change.	Slope Of Linear Functions	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Discuss rate of change as it relates to slope Calculate slope from a graph; emphasize the idea of rise over run	Calculate slope based on information found in a graph Understand rise over run	Slope	Moving Straight Ahead Investigation: 1, 2 & 4
	A.PA.07.07 Represent linear functions in the form $y = x + b$, $y = mx$, and $y = mx + b$, and graph, interpreting slope and y-intercept.	Slope And y-intercept	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Identify slope and y-intercept from an equation ($y = mx + b$) or graph	Identify and use slope-intercept form	Slope-intercept Form	Moving Straight Ahead Investigation: 1, 2 & 4
	A.PA.07.04 For directly proportional or linear situations, solve applied problems using graphs and equations, eg, the heights and volume of a container with uniform cross-section, height of water in a tank being filled at a constant rate; degrees Celsius and degrees Fahrenheit; distance and time under constant speed.	Linear Representations	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Solve applied problems using graphs and equations.	Understand how to read a graph to solve problems. Understand how to read an equation to solve problems.	Directly Proportional Slope Y-intercept Constant Rate of Change	Moving Straight Ahead Investigation: 1, 2 & 4
	A.FO.07.08 Find and interpret the x and/or y intercepts of a linear equation or function. Know that the solution to a linear equation of the form $ax+b=0$ corresponds to the point at which the graph of $y = ax+b$ crosses the x axis	Linear Representations	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Find and interpret the x and/or y intercepts of a linear equation or function.	Understand how to use the slope-intercept form of a line to find the x and/or y intercepts.	x-intercept y-intercept	Moving Straight Ahead Investigation: 1, 2 & 4
	A.PA.07.03 Given a directly proportional or other linear situation, graph and interpret the slope and intercept(s) in terms of the original situation; evaluate $y = mx + b$ for specific x values, e.g., weight vs. volume of water, base cost plus cost per unit.	Slope And Intercepts	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Set up directly proportional functions Graph equations and determine slope and intercepts	Identify slope and intercepts	Slope Intercepts	Moving Straight Ahead Investigation: 1-4

	A.PA.07.11 Understand and use basic properties of real numbers: additive and multiplicative identities, additive and multiplicative inverses, commutativity, associativity, and distributive property of multiplication over addition.	Basic Properties Of Real Numbers	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Identify properties of real numbers	Use properties of equations to solve	Additive Identity Mult. Identity Additive Inverse Mult. Inverse Commutativity Associativity Distributive Property	Supplemented material, teach in Investigation 2
	A.FO.07.12 Add, subtract, and multiply simple algebraic expressions of the first degree, e.g., $(92x + 8y) - 5x + y$, or $x(x + 2)$ and justify using properties of real numbers.	Algebraic Expressions	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Identify like terms	Combine like terms in expressions and equations	First Degree Properties of Equality Point of Intersection	Supplemented material, teach in Investigation 2
	A.FO.07.13 From applied situations, generate and solve linear equations of the form $ax + b = c$ and $ax + b = cx + d$, and interpret solutions.	Solving Linear Equations	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Investigate multi-step equations	Solve multi-step equations Interpret meaning of each term	Properties Equality Point of Intersection	Moving Straight Ahead Investigation: 2-3
	A.PA.07.09 Recognize inversely proportional relationships in contextual situations; know that quantities are inversely proportional if their product is constant, e.g., the length and width of a rectangle with fixed area, and that an inversely proportional relationship is of the form $y = k/x$ where k is some non-zero number.	Inverse Proportional Relationships	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Use real world situations to show inversely proportional relationships	Recognize functions/situations that are inverse relationships	Inversely Proportional	Supplemented material, teach in Investigation 3
	A.RP.07.10 Know that the graph of $y = k/x$ is not a line, know its shape, and know that it crosses neither the x nor the y-axis.	Graph $y = k/x$	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Show equations $y = k/x$ will not cross the x- nor y-axis	Recognize the shape of a graph of the equation $y = k/x$	Inversely Proportional	Supplemented material, teach in Investigation 3
	3rd Trimester							
	Data Distributions							
Data and Probability	D.AN.07.04 Find and interpret the median, quartiles, and interquartile range of a given set of data.	Central Tendencies	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Calculate median and interquartile range	Calculate median and interquartile range	Median Interquartile Range	Data Distributions Investigation: 2
	D.AN.08.01 Determine which measure of central tendency (mean, median, mode) best represents a data set, e.g., salaries, home prices, for answering certain questions; justify the choice made.	Central Tendencies	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Distinguish between mean, median, and mode Identify central tendency that represents data best	Understand difference between mean, median, and mode, and determine which central tendency represents data	Mean Median Mode	Data Distributions Investigation: 2

	D.AN.07.03 Calculate and interpret relative frequencies and cumulative frequencies for given data sets.	Frequencies	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Calculate and interpret relative frequencies and cumulative frequencies for given data sets	Calculate and interpret relative frequencies and cumulative frequencies for given data sets	Variability Categorical Data Numerical Data Value Bar Graph Ordered Bar Graph Line Plots	Supplement
	D.RE.07.01 Represent and interpret data using circle graphs, stem and leaf plots, histograms, and box and whisker plots, and select appropriate representation to address specific questions.	Interpreting Data	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Create circle graphs, stem and leaf plots, histograms, and box and whisker plots, and interpret data in each	Ability to represent and interpret data using appropriate graphs	Circle Graph Stem and Leaf Plot Histogram Box and Whisker Plot	Supplement
	N.MR.07.02 Solve problems involving derived quantities such as density, velocity, and weighted averages.	Derived Quantities	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Display examples of derived quantities such as density, velocity, or weighted averages (grade point average)	Calculate derived quantities with accuracy	Derived Quantities (density) (velocity) (weighted averages)	Supplement
	Samples and Populations							
Data	D.RE.07.01 Represent and interpret data using circle graphs, stem and leaf plots, histograms, and box and whisker plots, and select appropriate representation to address specific questions.	Interpret Data	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Create circle graphs, stem and leaf plots, histograms, and box and whisker plots, and interpret data in each	Ability to represent and interpret data using appropriate graphs	Circle Graph Stem and Leaf Plot Histogram Box and Whisker Plot	Samples and Populations Investigation: 1 Supplemented material for circle graph and stem-and-leaf
	D.AN.07.04 Find and interpret the median, quartiles, and interquartile range of a given set of data.	Central Tendencies	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Calculate median and interquartile range	Calculate median and interquartile range	Median Interquartile Range	Samples and Populations Investigation: 1
	D.AN.07.02 Create and interpret scatter plots and find line of best fit; use an estimated line of best fit to answer questions about the data.	Scatterplots	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Make scatterplots and find the line of best fit	Understand how to create scatterplots and line of best fit	Scatterplot Line of Best Fit	Samples and Populations Investigation: 4
	What Do You Expect?							
Probability	D.PR.08.05 Find and/or compare the theoretical probability, experimental probability, and/or the relative frequency of a given event	Theoretical and Experimental Probability	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Calculate theoretical and experimental probability Calculate relative frequency	Identify the difference between theoretical and experimental probability	Theoretical Probability Experimental Probability Relative Frequency	What Do You Expect? Investigation: 1

	<p>D.PR.08.04b Calculate the probabilities using organized lists or tree diagrams</p>	<p>Counting Principles</p>	<p>Check Up Partner Quiz Homework</p>	<p>Unit, Trimester, and Completion Assessments</p>	<p>Calculate probabilities using lists and diagrams</p>	<p>Create lists and tree diagrams</p>	<p>Organized Lists Tree Diagrams</p>	<p>What Do You Expect? Investigation: 1</p>
	<p>D.PR.08.03a Compute relative frequencies from a table or experimental results for a repeated event</p>	<p>Relative and Cumulative Frequency</p>	<p>Check Up Partner Quiz Homework</p>	<p>Unit, Trimester, and Completion Assessments</p>	<p>Compute relative frequencies and experimental results</p>	<p>Interpret data from a table or repeated event</p>	<p>Relative Frequencies Experimental Results</p>	<p>What Do You Expect? Investigation: 1</p>
	<p>D.PR.08.03b Interpret the results using relationships of probability to relative frequency</p>	<p>Relative and Cumulative Frequency</p>	<p>Check Up Partner Quiz Homework</p>	<p>Unit, Trimester, and Completion Assessments</p>	<p>Relate probability to relative frequency</p>	<p>Identify relationships of probability to relative frequency</p>	<p>Probability Relative Frequency</p>	<p>What Do You Expect? Investigation: 1</p>
	<p>D.PR.08.04a Apply the Basic Counting Principle to find total number of outcomes possible for independent and dependent events</p>	<p>Counting Principles and Dependent vs. Independent Events</p>	<p>Check Up Partner Quiz Homework</p>	<p>Unit, Trimester, and Completion Assessments</p>	<p>Calculate total outcomes using Basic Counting Principles</p>	<p>Use Basic Counting Principle</p>	<p>Basic Counting Principle</p>	<p>What Do You Expect? Investigation: 1</p>
	<p>D.PR.08.06 Understand the difference between independent and dependent events, and recognize common misconceptions involving probability, e.g., Alice rolls a 6 on a die three times in a row; she is just as likely to roll a 6 on the fourth roll as she was on any previous roll</p>	<p>Misconceptions in Probability</p>	<p>Check Up Partner Quiz Homework</p>	<p>Unit, Trimester, and Completion Assessments</p>	<p>Recognize misconceptions regarding probability</p>	<p>Identify the difference between independent and dependent events</p>	<p>Independent Events Dependent Events</p>	<p>What Do You Expect? Investigation: 1</p>
	<p>N.MR.08.10 Calculate weighted averages such as course grades, consumer price indices, and sport ratings</p>	<p>Weighted Averages</p>	<p>Check Up Partner Quiz Homework</p>	<p>Unit, Trimester, and Completion Assessments</p>	<p>Calculate weighted average</p>	<p>Calculate weighted average</p>	<p>Weighted Averages</p>	<p>What Do You Expect? Investigation: 1</p>

	Recognize Irrational Numbers							
Square Roots and Cube Roots	N.MR.07.06 Understand the concept of square root and cube root and estimate using calculators	Square Roots and Cube Roots	Homework Check Up Partner Quiz	Completion Assessments	Find square roots and cube roots.	Students will understand the difference between rational and irrational numbers when investigating square roots and cube roots	Perfect square Square root Perfect cube Cube root Rational number Irrational number	Supplement
	Looking for Pythagoras							
Pythagorean Theorem	N.ME.08.01 Understand the meaning of a square root of a number and its connection to the square whose area is the number; understand the meaning of a cube root and its connection to the volume of a cube.	Square Roots And Cube Roots	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Draw squares with different side lengths Calculations of volume and identify to cube root Know volume formula of $l \times w \times h$	Determine the side length of a perfect square area Determine the cube root from the volume of a cube	Square Root Cube Root	Looking for Pythagoras Investigation: 1
	N.FL.08.06 Find square roots of perfect squares and approximate the square roots of non-perfect squares by locating them between consecutive integers, e.g., $\sqrt{130}$ is between 11 and 12.	Calculating Square Roots	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Know all the perfect squares and their square roots to 625 Understand how to estimate a non-perfect square number to be between two integers	Find the length of a side of a square based on its area Provide approximate decimal representation for non-perfect squares	Perfect Square	Looking for Pythagoras Investigation: 2
	N.ME.08.04 Understand that irrational numbers are those that cannot be expressed as the quotient of two integers, and cannot be represented by terminating or repeating decimals; approximate the position of familiar irrational numbers (e.g., $\sqrt{2}$, $\sqrt{3}$, π) on the number line.	Irrational Numbers	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Demonstrate the length of a side of a square is the square root of the area	Display knowledge when applying side length of a square	Irrational Number Square Root	Looking for Pythagoras Investigation: 2 & 4
	N.FL.08.05 Estimate and solve problems with square roots and cube roots using calculators.	Square Roots And Cube Roots	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Use TI-83 calculator to perform operations with square root and cube root	Apply to Pythagorean Theorem	Pythagorean Theorem	Looking for Pythagoras Investigation: 2 - 4
	G.GS.08.01 Understand at least one proof of the Pythagorean Theorem; use the Pythagorean Theorem and its converse to solve applied problems including perimeter, area, and volume problems.	Pythagorean Theorem	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Use cut-outs or squares of the sides of a triangle to show the Pythagorean Theorem	Find the area of squares and solving equations with radicals	Proof Applied Problems	Looking for Pythagoras Investigation: 3
	G.LO.08.02 Find the distance between two points on the coordinate plane using the distance formula; recognize that the distance formula is an application of the Pythagorean Theorem.	Pythagorean Theorem	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Practice use of squares and square roots Identify parts of right triangles Solve steps of quadratic equations	Fluent use of squares and square roots Know properties of a right triangle Find the length of an unknown side of a right triangle Application of $a^2 + b^2 = c^2$	Hypotenuse Leg/Side	Looking for Pythagoras Investigation: 3

	N.ME.08.03 Understand that in decimal form, rational numbers either terminate or eventually repeat, and that calculators truncate or round repeating decimals; locate rational numbers on the number line; know fraction forms of common repeating decimals (e.g., $0.\bar{1} = \frac{1}{9}$; $0.\bar{3} = \frac{1}{3}$).	Repeating and Terminating Decimals	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Convert between fractions and repeating or terminating decimals	Apply to exercises involving Pythagorean Theorem	Truncate Repeating Decimals Terminating Decimals	Looking for Pythagoras Investigation: 4
	Filling and Wrapping							
	G.SR.08.07 Understand the concept of surface area, and find the surface area of prisms, cones, spheres, pyramids, and cylinders.	Surface Area of Three-dimensional Figures	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Identify the faces of a figure that relate to calculating surface area	Demonstrate ability to calculate surface area of three-dimensional figures	Surface Area	Filling and Wrapping Investigation: 3
	A.PA.08.03 Recognize basic functions in problem context, e.g., area of a circle is πr^2 , volume of a sphere is $\frac{4}{3} \pi r^3$, and represent them using tables, graphs, and formulas.	Area of Circles Volume of Spheres	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Manipulate formulas to solve Work with squares and cubes in a formula	Calculate area of circle and volume of sphere using appropriate formulas	Pi Radius	Filling and Wrapping Investigation: 3 and 4
	G.SR.08.06 Know the volume formulas for generalized cylinders ((area of base) x height), generalized cones and pyramids ($\frac{1}{3}$ (area of base) x height), and spheres ($\frac{4}{3} n^3$ (radius)) and apply them to solve problems.	Volume Formulas	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Investigate volume formulas for cylinders, cones, pyramids, and spheres	Understand the formulas for cylinders, cones, pyramids, and spheres	Volume Formula	Filling and Wrapping Investigation: 3 and 4
	G.SR.08.07 Understand the concept of surface area, and find the surface area of prisms, cones, spheres, pyramids, and cylinders.	Surface Area of Three-dimensional Figures	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Counting square units Relating the area to the length of a side Strategies for determining area of irregular figures	Recognize different shapes and draw different shapes Definition of area Calculating area of regular and irregular figures	Surface Area	Filling and Wrapping Investigation: 3 and 4
	G.SR.08.08 Sketch a variety of two-dimensional representations of three-dimensional solids including orthogonal views (top, front, and side), picture views (projective or isometric), and nets; use such two-dimensional representation to help solve problems.	Two- and Three-Dimensional Drawings	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Demonstrate sketches of two-dimensional and three-dimensional figures Identify nets of three-dimensional figures Identify projective and isometric views	Knowledge of different views of nets Ability to draw orthogonal views of three-dimensional figures Sketch projective views	Nets Projective View Isometric	Use supplemental material in binder

	G.SR.08.04 Find area and perimeter of complex figures by sub-dividing them into basic shapes (quadrilaterals, triangles, circles).	Area and Perimeter of Polygons	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Divide complex shapes and figures into smaller basic shapes to determine area and perimeter	Find area and perimeter by subdividing complex shapes and figures into basic shapes	Complex Shapes Area Perimeter	Use supplemental material in binder
	G.SR.08.03 Understand the definition of a circle; know and use the formulas for circumference and area of a circle to solve problems.	Properties Of Circles	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	$C = \pi d$ $A = \pi r^2$	Use formulas of circles to find circumference and area	Circumference Pi Radius	Use supplemental material in binder
	G.SR.08.05 Solve applied problems involving areas of triangles, quadrilaterals, and circles.	Applied Area Problems	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Solve applied problems involving areas of triangles, quadrilaterals, and circles.	Know which formula to use to solve different area problems	Area Triangle Quadrilateral Circle	Use supplemental material in binder
Geometric Constructions								
Geometric constructions	G.SR.07.01 Use ruler and other tools to draw squares, rectangles, triangles and parallelograms with specified dimensions.	Geometric Constructions	Homework Check Up Partner Quiz	Completion Assessments	Use ruler, compass and straight edge to construct geometric constructions	Ability to draw quadrilaterals and triangles with specified dimensions	Square Rectangle Triangle Equilateral Isosceles Scalene parallelogram	Supplement
	G.SR.07.02 Use compass and straightedge to perform basic geometric constructions: the perpendicular bisector of a segment, and equilateral triangle, and the bisector of an angle; understand informal justifications.	Geometric Constructions	Homework Check Up Partner Quiz	Completion Assessments	Use compass and straight edge to construct geometric constructions	Ability to bisect a segment, construct equilateral triangles, and bisect an angle	Triangle Equilateral Bisector Ray Line segment Arc vertex	Supplement
Kaleidoscopes, Hubcaps, & Mirrors								
Symmetry and Transformations	G.TR.08.10 Understand and use reflective and rotational symmetries of two-dimensional shapes and relate them to transformations to solve problems.	Reflective And Rotational Symmetry	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Practice reflection, rotation, translation, and combinations (transformations) Identify line symmetry and point reflections	Apply concepts to find distances, congruency, and properties of triangles	Reflection Rotation Translation Transformations Symmetry	Kaleidoscopes, Hubcaps, & Mirrors Investigation: 1 & 3

	G.TR.08.09 Understand the definition of a dilation from a point in the plane, and relate it to the definition of similar polygons.	Dilation	Check Up Partner Quiz Homework	Unit, Trimester, and Completion Assessments	Demonstrate a dilation from a point in a plane, and relate to polygons	Understand a dilation from a point	Dilation	Kaleidoscopes, Hubcaps, & Mirrors Investigation: 2 Supplemented material needed
	Skills Used Throughout All Units							
Computing with Rational Numbers	N.FL.07.07 Solve problems involving operations with integers	Rational Number Operations	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Apply integer rules with in a mathematical context.	Understand what integers mean when solving mathematical problems.	Integers	Skills used throughout all units
	N.FL.07.08 Add, subtract, multiply, and divide positive and negative rational numbers fluently.	Rational Number Operations	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Utilize addition, subtraction, multiplication, and division operations with rational numbers	Knowledge of working with positive and negative rational numbers with different operations	Rational Numbers	Skills used throughout all units
	N.FL.07.09 Estimate results of computations with rational numbers.	Rational Number Operations	Homework Check Up Partner Quiz	Unit, Trimester, and Completion Assessments	Estimate rational answers.	Determine whether an answer is reasonable using estimation.	Estimate	Skills used throughout all units