Integrated Math

State Standard Number	State Standard Area / Description	Unit Name	Course Topic Description
Big Idea 1	Analyze and represent linear functions, and solve linear equations and systems of linear equations.		
	Create and interpret tables, graphs, and models to represent, analyze, and solve problems related to linear equations, including analysis of domain, range, and the difference between discrete and continuous data.	Algebraic Sense	Section 7
	Interpret the slope and the x- and y-intercepts when graphing a linear equation for a real-world problem.	Algebraic Sense	Section 6
	Use tables, graphs, and models to represent, analyze, and solve real-world problems related to systems of linear equations.	Algebraic Sense	Section 6
	Identify the solution to a system of linear equations using graphs.	Algebraic Sense	Section 7, Part 1: Systems of two linear equations with two variables
	Translate among verbal, tabular, graphical, and algebraic representations of linear functions.	Algebraic Sense	Section 6: Graphing Equations and Inequalities
	Compare the graphs of linear and non-linear functions for real-world situations.	Algebraic Sense	Section 6
Big Idea 2	Analyze two- and three-dimensional figures by using distance and angle.		
	Use similar triangles to solve problems that include height and distances.	Geometric Figures	Section 5
	Classify and determine the measure of angles, including angles created when parallel lines are cut by transversals.	Geometric Figures	Section 3: Angles Section 4: Perpendicular and Parallel Lines
	Demonstrate that the sum of the angles in a triangle is 180-degrees and apply this fact to find unknown measure of angles and the sum of	Geometric Figures	Section 5, Part 2: Triangles

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	angles in polygons.		
	Validate and apply Pythagorean Theorem to find distances in real world situations or between points in the coordinate plane.	Geometric Figures	Section 5
Big Idea 3	Analyze and summarize data sets.		
	Select, organize and construct appropriate data displays, including box and whisker plots, scatter plots, and lines of best fit to convey information and make conjectures about possible relationships.	Data Sets	Section 1
	Determine and describe how changes in data values impact measures of central tendency.	Data Sets	Section 1
Supporting Idea 4	Algebra		
	Solve literal equations for a specified variable.	Algebraic Sense	Section 3: Solving Equations
	Solve and graph one- and two-step inequalities in one variable.	Algebraic Sense	Section 5, Part 1: Inequalities
Supporting Idea 5	Geometry and Measurement		
	Compare, contrast, and convert units of measure between different measurement systems (US customary or metric (SI)) and dimensions including temperature, area, volume, and derived units to solve problems.	Measurement	Section 1, Part 3: Metric Measurement-Conversion Section 2: Customary Measurement Section 4: Area Section 5: Volume Section 6: Time
Supporting Idea 6	Number and Operations		

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	Use exponents and scientific notation to write large and small numbers and vice versa and to solve problems.	Operations	Section 1: Scientific Notation
	Make reasonable approximations of square roots and mathematical expressions that include square roots, and use them to estimate solutions to problems and to compare mathematical expressions involving real numbers and radical expressions.	Operations	Section 1
	Simplify real number expressions using the laws of exponents.	Operations	Section 1
	Perform operations on real numbers (including integer exponents, radicals, percents, scientific notation, absolute value, rational numbers, and irrational numbers) using multi-step and real world problems.	Operations	Section 2