Performance Level Descriptors (PLDs)				
	Level 1	**Level 2**	**Level 3**	**Level 4**
Policy Statement	The student has a minimal understanding of grade-level standards and is likely to need additional support at this level of learning as described in the Alabama Course of Study.	The student has a partial understanding of grade-level standards and is likely to need some additional support at this level of learning as described in the Alabama Course of Study.	The student has a strong understanding of grade-level standards and demonstrates the knowledge and skills at this level of learning as described in the Alabama Course of Study.	The student has an advanced understanding of grade-level standards and exceedingly demonstrates the knowledge and skills at this level of learning as described in the Alabama Course of Study.
The performance level descriptors describe what a typical student scoring at each performance level can do. A student who scores at a level would be expected to also be able to demonstrate the skills described in previous levels. A student would not necessarily demonstrate all the skills listed at a particular performance level on a particular test in order to score at that level.				
Proportional Reasoning				
7.PR.1 7.PR.2 7.PR.2a 7.PR.2b 7.PR.2c 7.PR.3	**A student at this level** • determines whether two quantities are in a proportional relationship.	**A student at this level** • calculates unit rates that include ratios or fractions, • identifies specified points on the graph of a proportional relationship and interprets their meaning, and • uses proportional reasoning to solve simple percent problems.	**A student at this level** • identifies the constant of proportionality (unit rate) in context and expresses it using multiple representations, • explains the meaning of the points (0, 0) and (1, *r*) on the graph of a proportional relationship where *r* is the unit rate, and • uses proportional reasoning to solve multi-step percent problems.	**A student at this level** • understands that proportional relationships can have different constants of proportionality and • analyzes and interprets numerical and symbolic proportional relationships.

Number Systems and Operations				
7.NSO.4 7.NSO.4a 7.NSO.4b 7.NSO.4c 7.NSO.4d 7.NSO.4e 7.NSO.4f 7.NSO.4g 7.NSO.5	**A student at this level** • understands that a number and its opposite have a sum of 0.	**A student at this level** • adds and subtracts integers using a number line, • multiplies and divides integers, and • uses addition, subtraction, multiplication, and division to solve real-world and mathematical problems involving positive fractions and decimals.	**A student at this level** • applies properties to add and subtract rational numbers and interprets sums of rational numbers in real-world contexts; • applies properties to multiply and divide rational numbers and interprets products and quotients of rational numbers in real-world contexts; • converts a rational number to a decimal using long division; and • uses addition, subtraction, multiplication, and division to solve real-world and mathematical problems involving rational numbers.	**A student at this level** • applies understanding of all four operations with rational numbers to solve multi-step real-world problems, using fractions and decimals interchangeably, including translating among multiple representations of rational numbers.

Algebra and Functions				
7.AF.6 7.AF.7 7.AF.8 7.AF.9 7.AF.9a 7.AF.9b	**A student at this level** • identifies when expressions with integer coefficients are equivalent.	**A student at this level** • uses properties of operations to generate equivalent expressions with integer coefficients, • writes and solves multi-step, one-variable equations involving integers, and • writes and solves multi-step, one-variable inequalities involving integers and graphs the solution set on a number line.	**A student at this level** • uses properties of operations to generate equivalent expressions with rational coefficients, • writes and solves multi-step, one-variable equations involving rational numbers, and • writes and solves multi-step, one-variable inequalities involving rational numbers and graphs the solution set on a number line.	**A student at this level** • uses multiple properties of operations to strategize and generate equivalent expressions with rational coefficients and • uses variables to represent quantities in multi-step word problems, knowing when to use an equation or inequality to represent a solution.

Data Analysis, Statistics, and Probability				
7.DSP.10 7.DSP.10a 7.DSP.10b 7.DSP.10c 7.DSP.10d 7.DSP.10e 7.DSP.11 7.DSP.12 7.DSP.13 7.DSP.14 7.DSP.14a 7.DSP.14b 7.DSP.15 7.DSP.15a 7.DSP.16 7.DSP.16a 7.DSP.16b 7.DSP.16c	**A student at this level** • differentiates between populations and samples; • distinguishes between valid and invalid samples; • understands probability as quantifiable between 0 and 1; and • understands that the probability of a compound event is a fraction of desired outcomes in the sample space.	**A student at this level** • uses data from a random sample to generalize information about a population, • approximates simple probability, and • represents a sample space for compound events using various methods.	**A student at this level** • uses data from a random sample and numeric measures (including mean absolute deviation) to draw comparative inferences about two populations, • develops a probability model, uses it to find or approximate probabilities of events, and compares the model to observed frequencies, and • determines probabilities of compound events.	**A student at this level** • develops, uses, and evaluates multiple probability models and • designs and uses a simulation to generate frequencies for compound events.

Geometry and Measurement				
7.GM.17 7.GM.18 7.GM.19 7.GM.20 7.GM.20a 7.GM.20b 7.GM.21 7.GM.22	**A student at this level**	**A student at this level**	**A student at this level**	**A student at this level**
	• identifies the scale factor of a model;	• solves problems involving length with scale drawings;	• solves problems involving length and area with scale drawings and reproduces a scale drawing at a different scale;	• interprets a scale drawing as a proportional relationship and a scale factor as a constant of proportionality and
			• understands when given angle measures and/or side lengths determine a unique triangle, more than one triangle, or no triangle;	
		• describes two-dimensional plane sections of geometric figures that are parallel or perpendicular to bases;	• describes two-dimensional plane sections of geometric figures;	
	• identifies the center, radius, diameter, and circumference of a circle;	• uses formulas to find the exact (using π) or approximate (using 3.14) area and circumference of a circle;	• solves real-world and mathematical problems using the area and circumference of a circle;	• interprets the relationship between the circumference and diameter of a circle as a proportional relationship and π as the constant of proportionality.
	• identifies complementary, supplementary, vertical, and adjacent angles; and	• knows properties of complementary, supplementary, vertical, and adjacent angles; and	• solves multi-step problems involving complementary, supplementary, vertical, and adjacent angles, including writing and solving equations for an unknown angle; and	

	• calculates the area of already-decomposed two-dimensional objects.	• calculates the surface area and volume of already-decomposed three-dimensional objects.	• solves real-world and mathematical problems involving the area, volume, and surface area of two- and three-dimensional objects.	

