

Performance Level Descriptors

Mathematics Grade 5





Performance Level Descriptors (PLDs)					
	Level 1	Level 2	Level 3	Level 4	
Policy	The student has a minimal	The student has a partial	The student has a strong	The student has an advanced	
Statement	understanding of grade-level standards and needs additional support at this level of learning as described in the Alabama Course of Study.	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.	understanding of grade-level standards and demonstrates the knowledge and skills at this level of learning as described in the Alabama Course of Study.	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.

Operations and Algebraic Thinking

5.OA.1	A student at this level	A student at this level	A student at this level	A student at this level
5.OA.2 5.OA.2a 5.OA.2b 5.OA.2c	evaluates one-step numerical expressions and	 writes simple numerical expressions and applies a set of grouping symbols appropriately and 	 writes, explains, and evaluates numerical expressions using grouping symbols, 	 writes, explains, and evaluates numerical expressions with two or more sets of grouping symbols,
	identifies the next term in a pattern.	 identifies or generates a rule for a given pattern. 	 generates two numerical patterns from two rules, identifies the corresponding terms, and explains the corresponding relationships, and 	 generates two complex numerical patterns from two rules, identifies the corresponding terms, and explains the corresponding relationships, and
			translates numerical patterns into ordered pairs and plots the points on a coordinate plane.	 translates numerical patterns into ordered pairs, plots coordinate pairs on a coordinate plane, and explains data displayed on a coordinate plane.

Operations with Numbers: Base Ten				
5.NBT.3 5.NBT.3a	A student at this level	A student at this level	A student at this level	A student at this level
5.NBT.3b 5.NBT.4 5.NBT.4a 5.NBT.4b 5.NBT.5 5.NBT.6 5.NBT.7 5.NBT.7	 identifies the place value name for a given digit or the digit in a given place value in a decimal to the tenths. 	 identifies the place value name for a given digit or the digit in a given place value in a decimal to the thousandths; 	 recognizes that the value of a digit is ten times as great as the same digit one place to the right and one-tenth as great as the same digit one place to the left; 	
5.NBT.8b		 multiplies and divides by powers of ten; 	 uses whole-number exponents to denote powers of ten; 	
		 reads, writes, and symbolically compares (using <, >, and =) decimals to the hundredths; 	 reads, writes, and symbolically compares (using <, >, and =) decimals to the thousandths in standard form (base-ten numerals); 	 reads, writes, and symbolically compares (using <, >, and =) decimals to the thousandths, including in expanded form; compares three or more decimals to the thousandths;
			 uses place values to round decimals to the thousandths; 	, and the second
		 multiplies multi-digit whole numbers using a visual or place value strategy; 	 multiplies multi-digit whole numbers using the standard algorithm; 	 fluently multiplies multi-digit whole numbers;

		divides whole numbers with dividends up to four digits and one-digit divisors; and	 divides multi-digit whole numbers with dividends up to four digits and divisors up to two digits; and 	fluently divides multi-digit whole numbers; and
		 adds, subtracts, multiplies, or divides decimals to the hundredths. 	 adds, subtracts, multiplies, and divides decimals to the hundredths with and without real-world context. 	 fluently adds, subtracts, multiplies, and divides decimals to any place value.
Operations w	vith Numbers: Fractions			
5.NF.9 5.NF.10	A student at this level	A student at this level	A student at this level	A student at this level
5.NF.11 5.NF.11a 5.NF.11b 5.NF.12 5.NF.12a 5.NF.12b 5.NF.12d 5.NF.13d 5.NF.13a 5.NF.13b 5.NF.13c 5.NF.13c 5.NF.15 5.NF.15 5.NF.15		adds and subtracts fractions with unlike denominators,	 solves one-step word problems with addition and subtraction of fractions with unlike denominators; adds and subtracts fractions and mixed numbers with unlike denominators; recognizes a fraction as a numerator divided by a denominator; solves one-step word problems involving division of whole numbers, which leads to answers in the form of fractions or mixed numbers; 	 solves multi-step word problems with addition and subtraction of fractions with unlike denominators; recognizes and interprets a fraction as a numerator divided by a denominator; solves multi-step word problems involving division of whole numbers, which leads to answers in the form of fractions or mixed numbers;

Grade 5 Mathematics (2019 COS)		ACAI Suilli	native Performance Level Descriptors
	 fluently multiplies a fraction by a whole number, and 	 multiplies fractions by fractions and fractions by whole numbers; solves one-step problems involving areas of rectangles with fractional side lengths; 	 solves multi-step problems involving areas of rectangles with fractional side lengths;
	 recognizes that multiplication may result in a product that is smaller than one of the factors. 	 side lengths; interprets multiplication as scaling to modify the relative sizes of numbers with respect to fractions > 1 and < 1; 	 understands, interprets, and represents multiplication as scaling to modify the relative sizes of numbers with respect to fractions > 1 and < 1;
		 models and solves real- world one-step problems involving multiplication of fractions and mixed numbers; 	 models and solves real- world multi-step problems involving multiplication of fractions and mixed numbers;
		 solves real-world problems involving division of unit fractions by whole numbers and division of whole numbers by unit fractions; and 	 represents and interprets division of fractions by dividing unit fractions by whole numbers and dividing whole numbers by unit fractions; and
		 creates story contexts involving division of unit fractions and whole numbers. 	 creates and solves problems involving division of unit fractions and whole numbers without the use of models.

Data Analysis				
5.DA.16 5.DA.16a	A student at this level	 A student at this level creates line plots consisting of data in fractions of a unit. 	creates line plots consisting of data in fractions of a unit and solves problems involving information presented in line plots.	 solves complex problems involving information presented in line plots.
Measureme	nt			
5.M.17 5.M.18 5.M.18a 5.M.19 5.M.19a 5.M.19b 5.M.19c	 Calculates one-step conversions of length and time within a given system and identifies volume as an attribute of three-dimensional objects. 	 Calculates one-step conversions of length, time, and mass within a given system, identifies cubic length units as measures of volume, and finds volumes of right rectangular prisms by counting unit cubes. 	calculates one-step conversions of time, length, volume, and mass within a given system in multi-step problems, identifies and represents volume as an attribute of three-dimensional objects, and finds volumes of right rectangular prisms and recognizes the relationship between using multiplication and packing the prism with unit cubes.	calculates multi-step conversions of time, length, volume, and mass and represents and analyzes volume as an attribute of three-dimensional objects.

Geometry				
5.G.20 5.G.21 5.G.22 5.G.23	identifies parts of a coordinate plane and graphs points with the same x- and y-coordinates in the first quadrant of the coordinate plane and	 A student at this level graphs points with different x- and y-coordinates in the first quadrant of the coordinate plane and 	graphs points in the first quadrant of the coordinate plane and interprets points in a real-world context and	A student at this level
	 identifies attributes of two-dimensional figures. 	 classifies two- dimensional figures according to their attributes. 	 classifies triangles according to side length and angle measure and classifies quadrilaterals in a hierarchy. 	 explains the relationships between categories and subcategories of two- dimensional figures according to their attributes.