Achievement Level Descriptors

for

Grade 5 Mathematics

Georgia Department of Education
September 2015

Based on the 2014-2015 Administrations

Achievement Levels and Achievement Level Descriptors

With the implementation of the Georgia Milestones Assessment System, Georgia educators have developed four achievement levels to describe student mastery and command of the knowledge and skills outlined in Georgia's content standards. Most students have at least some knowledge of the content described in the content standards; however, achievement levels succinctly describe how much mastery a student has. Achievement levels give meaning and context to scale scores by describing the knowledge and skills students must demonstrate to achieve each level.

The four achievement levels on Georgia Milestones are *Beginning Learner, Developing Learner, Proficient Learner,* and *Distinguished Learner.* The general meaning of each of the four levels is provided below:

Beginning Learners **do not yet demonstrate proficiency** in the knowledge and skills necessary at this grade level/course of learning, as specified in Georgia's content standards. The students ***need substantial academic support*** to be prepared for the next grade level or course and to be on track for college and career readiness.

Developing Learners **demonstrate partial proficiency** in the knowledge and skills necessary at this grade level/course of learning, as specified in Georgia's content standards. The students ***need additional academic support*** to ensure success in the next grade level or course and to be on track for college and career readiness.

Proficient Learners **demonstrate proficiency** in the knowledge and skills necessary at this grade level/course of learning, as specified in Georgia's content standards. The students ***are prepared*** for the next grade level or course and are on track for college and career readiness.

Distinguished Learners **demonstrate advanced proficiency** in the knowledge and skills necessary at this grade level/course of learning, as specified in Georgia's content standards. The students ***are well prepared*** for the next grade level or course and are well prepared for college and career readiness.

More detailed and content-specific concepts and skills are provided for each grade, content area, and course in the **Achievement Level Descriptors** (ALDs). ALDs are narrative descriptions of the knowledge and skills expected at each of the four achievement levels and were developed for each grade level, content area, and course by committees of Georgia educators in March 2015 and July 2015. The ALDs are based on the state-adopted content standards.

ALDs show a *progression of knowledge and skills* for which students must demonstrate competency across the achievement levels. It is important to understand that a student should demonstrate mastery of the knowledge and skills within his/her achievement level *as well as all content and skills in any achievement levels that precede his/her own, if any*. For example, a Proficient Learner should also possess the knowledge and skills of a Developing Learner *and* a Beginning Learner.

ALD	Standard	Beginning Learner	Developing Learner	Proficient Learner	Distinguished Learner
Policy		**Beginning Learners do not yet demonstrate proficiency in the knowledge and skills** necessary at this grade level/course of learning, as specified in Georgia's content standards. The students need substantial academic support to be prepared for the next grade level or course and to be on track for *college and career readiness.*	**Developing Learners demonstrate partial proficiency in the knowledge and skills** necessary at this grade level/course of learning, as specified in Georgia's content standards. The students need additional academic support to ensure success in the next grade level or course and to be on track for *college and career readiness.*	**Proficient Learners demonstrate proficiency in the knowledge and skills** necessary at this grade level/course of learning, as specified in Georgia's content standards. The students are prepared for the next grade level or course and are on track for *college and career readiness.*	**Distinguished Learners demonstrate advanced proficiency in the knowledge and skills** necessary at this grade level/course of learning, as specified in Georgia's content standards. The students are well prepared for the next grade level or course and are well prepared for *college and career readiness.*
Range		A student who achieves at the **Beginning Learner** level demonstrates minimal command of the grade-level standards.	A student who achieves at the **Developing Learner** level demonstrates partial command of the grade-level standards.	A student who achieves at the **Proficient Learner** level demonstrates proficiency of the grade-level standards.	A student who achieves at the **Distinguished Learner** level demonstrates advanced proficiency of the grade-level standards.
	5.OA.1 5.OA.2 5.OA.3	Writes one-step numerical expressions and identifies the next term in a pattern.	Writes simple numerical expressions, uses a set of grouping symbols, and identifies a pattern based on a rule.	Writes, evaluates, and interprets numerical expressions using parentheses, brackets, or braces; generates two numerical patterns from a rule and identifies the corresponding terms, using an input/output table; and, using terms, forms and graphs ordered pairs on a coordinate plane.	Solves multistep word problems by writing, evaluating, and interpreting numerical expressions with two or more sets of grouping symbols; generates patterns and explains the corresponding relationships on an input/output table; and forms and graphs ordered pairs on a coordinate grid and explains data displayed on a coordinate grid.
	5.NBT.1 5.NBT.2 5.NBT.3 5.NBT.4 5.NBT.5	Recognizes place value names and quantity and adds and subtracts decimals.	Recognizes increasing and decreasing place value; reads, writes, and compares decimals to tenths; multiplies multidigit numbers; adds, subtracts, and multiplies decimals; and	Recognizes the directional characteristics of place value; reads, writes, and compares decimals to thousandths; multiplies and divides multidigit numbers; adds, subtracts,	Recognizes the ascending and descending characteristics of place value; reads, writes, and compares decimals, including expanded form; uses place value to round decimals;

	5.NBT.6 5.NBT.7		multiplies and divides by powers of ten.	multiplies, and divides decimals; and uses whole-number exponents to denote powers of ten.	fluently multiplies and divides multidigit numbers; fluently adds, subtracts, multiplies, and divides decimals; and compares three or more decimals to the thousandths.
	5.NF.1 5.NF.2 5.NF.3 5.NF4 5.NF.5 5.NF.6 5.NF.7	Adds and subtracts fractions with like denominators.	Uses area models to add and subtract fractions with unlike denominators, solves single-step word problems with addition and subtraction of fractions, and multiplies fractions by whole numbers.	Adds and subtracts fractions and mixed numbers, solves word problems with addition and subtraction of fractions, recognizes fractions as numerator divided by denominator, solves word problems with mixed-number quotients, fluently multiplies fractions by whole numbers, solves problems with areas of rectangles with fractional side lengths, interprets multiplication as scaling with respect to fractions > 1 and < 1, solves problems involving multiplication of fractions and mixed numbers, represents division of fractions by dividing unit fractions by whole numbers and dividing whole numbers by unit fractions, and solves problems involving division of fractions.	Adds and subtracts fractions and mixed numbers and solves multistep word problems with addition and subtraction of fractions; recognizes and interprets fractions as numerator divided by denominator; solves multistep word problems with mixed-number quotients; fluently multiplies fractions by whole numbers; solves multistep problems with areas of rectangles with fractional side lengths; understands, interprets, and represents multiplication as scaling with respect to fractions > 1 and < 1; solves multistep problems in multiplication of fractions and mixed numbers; represents and interprets division of fractions by dividing unit fractions by whole numbers and dividing whole numbers by unit fractions; and solves multistep problems in division of fractions.
	5.MD.1 5.MD.2 5.MD.3 5.MD.4 5.MD.5	Calculates one-step conversions of length, identifies measures of volume, and finds volumes of rectangular prisms by counting unit cubes.	Calculates one-step conversions of length and mass within a given system, creates line plots, and identifies volume as an attribute of three-dimensional objects.	Calculates one-step conversions of time, length, volume, and mass within a given system; creates and interprets line plots; identifies and represents volume as an attribute of three-	Calculates multistep conversions of time, length, volume, and mass; creates and interprets multiple characteristics of line plots; represents, compares, and

				dimensional objects; finds the volume of rectangular prisms; and recognizes volume as additive.	analyzes volume as an attribute of three-dimensional objects; and finds missing side lengths with a given volume.
	5.G.1 5.G.2 5.G.3 5.G.4	Plots points on the coordinate plane and identifies two-dimensional figures.	Calculates volumes of rectangular prisms, identifies two-dimensional figures, identifies ordered pairs on the coordinate plane, and classifies shapes according to their attributes.	Computes volumes and relates them to operations, uses and applies graphing on *x*/*y*-coordinate systems, and recognizes and classifies two-dimensional figures by hierarchy.	Relates volumes to additive operations, creates and uses *x*/*y*-coordinate systems, classifies two-dimensional objects by hierarchy, and graphs and interprets real world contexts/problems in the first quadrant.

