

Achievement Level Descriptors for

Grade 5 Mathematics

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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	Developing Learners	Proficient Learners	Distinguished Learners
•		demonstrate proficiency in the	demonstrate partial	demonstrate proficiency in the	demonstrate advanced
		knowledge and skills necessary	proficiency in the knowledge	knowledge and skills necessary	proficiency in the knowledge
		at this grade level/course of	and skills necessary at this	at this grade level/course of	and skills necessary at this
		learning, as specified in	grade level/course of learning,	learning, as specified in	grade level/course of learning,
		Georgia's content standards.	as specified in Georgia's	Georgia's content standards.	as specified in Georgia's
		The students need substantial	content standards. The	The students are prepared for	content standards. The
		academic support to be	students need additional	the next grade level or course	students are well prepared for
		prepared for the next grade	academic support to ensure	and are on track for college and	the next grade level or course
		level or course and to be on	success in the next grade level	career readiness.	and are well prepared for
		track for college and career	or course and to be on track for		college and career readiness.
		readiness.	college and career readiness.		
Range		A student who achieves at the	A student who achieves at the	A student who achieves at the	A student who achieves at the
		Beginning Learner level	Developing Learner level	Proficient Learner level	Distinguished Learner level
		demonstrates minimal	demonstrates partial command	demonstrates proficiency of the	demonstrates advanced
		command of the grade-level	of the grade-level standards.	grade-level standards.	proficiency of the grade-level
		standards.			standards.
			I		
	5.OA.1	Writes one-step numerical	Writes simple numerical	Writes, evaluates, and	Solves multistep word
	5.OA.2	expressions and identifies the	expressions, uses a set of	interprets numerical	problems by writing,
	5.OA.3	next term in a pattern.	grouping symbols, and	expressions using parentheses,	evaluating, and interpreting
			identifies a pattern based on a	brackets, or braces; generates	numerical expressions with
			rule.	two numerical patterns from a	two or more sets of grouping
				rule and identifies the	symbols; generates patterns
				corresponding terms, using an	and explains the
				input/output table; and, using	corresponding relationships on
				terms, forms and graphs	an input/output table; and
				ordered pairs on a coordinate	forms and graphs ordered
				plane.	pairs on a coordinate grid and
					explains data displayed on a
	E NIDT 1	Pocognizos place valve names	Pocognizes increasing and	Pacagnizes the directional	coordinate grid.
	5.NBT.1 5.NBT.2	Recognizes place value names and quantity and adds and	Recognizes increasing and	Recognizes the directional	Recognizes the ascending and descending characteristics of
	5.NBT.2 5.NBT.3	subtracts decimals.	decreasing place value; reads, writes, and compares decimals	characteristics of place value; reads, writes, and compares	place value; reads, writes, and
	5.NBT.4	Subtracts declinals.	to tenths; multiplies multidigit	decimals to thousandths;	compares decimals, including
	5.NBT.4 5.NBT.5		numbers; adds, subtracts, and	multiplies and divides multidigit	expanded form; uses place
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			multiplies decimals; and	numbers; adds, subtracts,	value to round decimals;

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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.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 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, identifies volume as an attribute of threedimensional objects, and	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	Calculates multistep conversions of time, length, volume, and mass; creates and interprets multiple characteristics of line plots; represents, compares, and

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