

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

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