

## Achievement Level Descriptors for

## **Grade 4 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 proceed 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.		
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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.
	4.OA.1	Solves single-step word	Solves single-step word	Interprets multiplication	Interprets multiplication
	4.OA.2	problems by adding,	problems by multiplying and	equations and uses them to	equations as comparisons and
	4.OA.3	subtracting, and multiplying	dividing with whole-number	solve multistep word problems	uses them to solve multistep
	4.OA.4	and finds all factor pairs to 24.	factors, products, dividends,	using the four operations, finds	word problems using the four
	4.OA.5		divisors, and quotients; finds all	factor pairs, identifies the rule	operations, finds factor pairs,
			factor pairs to 48; and identifies	for number and shape patterns,	generates number and shape
			the next term in a number or	interprets remainders, and uses	patterns that follow a given
			shape pattern.	strategies to assess the	rule, and recognizes a
				reasonableness of answers.	remainder as a fractional part
	4 NDT 1	Adds and subtracts up to three	Adds and subtracts finds	Adds subtracts and multiplies	of the divisor.
	4.NBT.1 4.NBT.2	Adds and subtracts up to three digits, uses place value to read	Adds and subtracts, finds whole-number quotients to two	Adds, subtracts, and multiplies fluently; finds whole-number	Adds, subtracts, multiplies, and divides fluently; uses place
	4.NBT.2 4.NBT.3	and write numbers, and	digits, uses place value to	quotients to four digits;	value to symbolically order and
	4.NBT.5	illustrates and explains	compare numbers, and reads	represents numbers in	compare numbers; represents
	4.NBT.6	calculations when multiplying	and writes numbers and uses	expanded form to 1000; uses	numbers in expanded form;
	4.1001.0	and dividing.	expanded form.	place value to order and	rounds to specified place
		and dividing.	expanded form.	compare numbers; and	values; and explains whole-
				recognizes whole-number	number patterns.
				patterns in base ten.	
				patterns in base ten.	

	6	Georgia Ena or Grade: Matrici	T	
4.NF.1	Compares fractions with like	Compares fractions with like	Understands and uses fraction	Understands and represents
4.NF.2	denominators and identifies	numerators or like	equivalence, compares	fraction equivalence, orders
4.NF.3	tenths, both as fractions and as	denominators; identifies unit	fractions symbolically, identifies	fractions symbolically,
4.NF.4	decimals, using visual models.	fractions; adds or subtracts	unit fractions that compose	represents and decomposes
4.NF.5		fractions with like	fractions with numerators >2,	fractions as a sum of unit
4.NF.6		denominators; and identifies	adds and subtracts fractions	fractions, adds and subtracts
		tenths and hundredths, both as	with like denominators, solves	fractions and mixed numbers
		fractions and as decimals, using	two-step word problems with	with like denominators, solves
		visual models.	addition and subtraction of	multistep word problems with
			fractions, multiplies fractions by	addition and subtraction of
			whole numbers, solves word	fractions, represents and
			problems with multiplication of	explains multiplication of
			fractions by whole numbers,	fractions by whole numbers,
			and finds equivalent fractions	solves multistep word
			using tenths and hundredths	problems with multiplication
			and compares two decimals.	of fractions by whole numbers,
				and orders three or more
				decimals from least to greatest
				or greatest to least.
4.MD.1	Distinguishes between larger	Converts units of measurement	Solves two-step problems in	Solves multistep problems in
4.MD.2	and smaller units of	using multiplication, draws line	measurement conversion using	measurement conversion
4.MD.3	measurement by recognizing	plots to represent data in	the four operations and	using and reversing the four
4.MD.4	factors as units of conversion,	whole-number units, recognizes	application of formulas, draws	operations and through the
4.MD.5	identifies data from line plots in	angles are fractions of a circle	line plots to represent data in	selection and application of
4.MD.6	whole-number units, and	and are measured in degrees,	fractions of a unit (½, ¼, ⅓),	formulas, draws line plots in
4.MD.7	recognizes angles.	and finds the area of	solves two-step problems	fractions of a unit to represent
4.MD.8	Teesginzes anglesi	rectangles.	involving interpretation of data,	data, solves multistep
		1.66101181631	recognizes angles are fractions	problems involving
			of circles and are measured in	interpretation of data, and
			degrees, solves addition and	decomposes angles.
			subtraction word problems	accomposes ungles.
			involving angles, and finds the	
			area of rectilinear figures.	
4.G.1	Draws points and line	Draws points, lines, and angles	Draws points, lines, line	Draws, defines, and interprets
4.G.2	segments, identifies two-	and identifies them in two-	segments, rays, angles, and	points, lines, line segments,
4.G.3	dimensional shapes, and	dimensional shapes; classifies	parallel and perpendicular lines	rays, angles, and parallel and
7.0.5	recognizes shapes with	two-dimensional shapes;	and identifies them in two-	perpendicular lines and
	symmetry.	identifies different kinds of	dimensional shapes; classifies	represents them in two-
	Symmetry.	triangles; distinguishes	two-dimensional shapes based	dimensional shapes; classifies
		between two-dimensional	· ·	•
	<u> </u>	between two-dimensional	on the presence of geometric	two-dimensional figures based

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	shapes with and without symmetry; and identifies a line of symmetry.	characteristics; identifies right triangles; identifies lines of symmetry in two-dimensional shapes; and draws lines of symmetry.	on the presence or absence of geometric characteristics; identifies and generalizes right triangles; interprets symmetry as a characteristic of two-dimensional shapes; and provides nonexamples of two-dimensional shapes, given specific characteristics