

Achievement Level Descriptors

for

Geometry

Based on the Georgia Standards of Excellence and Effective Beginning with Winter 2015 End-of-Course Administration

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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 proficiency	demonstrate proficiency in the	demonstrate advanced
		knowledge and skills necessary	in the knowledge and skills	knowledge and skills necessary	proficiency in the knowledge
		at this grade level/course of	necessary at this grade	at this grade level/course of	and skills necessary at this
		learning, as specified in	level/course of learning, as	learning, as specified in	grade level/course of learning,
		Georgia's content standards.	specified in Georgia's content	Georgia's content standards.	as specified in Georgia's
		The students need substantial	standards. The students need	The students are prepared for	content standards. The
		academic support to be	additional academic support to	the next grade level or course	students are well prepared for
		prepared for the next grade	ensure success in the next grade	and are on track for <i>college and</i>	the next grade level or course
		level or course and to be on	level or course and to be on	career readiness.	and are well prepared for
		track for college and career	track for college and career		college and career readiness.
		readiness.	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.
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	G.CO.1	Understands angles, circles,	Understands and represents	Experiments with	Understands, interprets, uses,
	G.CO.2	perpendicular lines, parallel	transformations in the plane.	transformations in the plane	and experiments with
	G.CO.3	lines, and line segments.		and uses coordinates to prove	transformations in the plane to
	G.CO.4			simple geometric theorems	demonstrate knowledge of and
	G.CO.5			algebraically.	analyze congruence in terms of
	G.GPE.4				transformations and uses
	G.GPE.5				coordinates to prove geometric
	G.GPE.6				theorems algebraically.
	G.GPE.7				
	G.CO.6	Identifies rigid transformations.	Uses transformations in the	Understands congruence in	Interprets, analyzes, and
	G.CO.7		plane as a way to understand	terms of rigid motions; proves	understands congruence in
	G.CO.8		and represent congruence;	geometric theorems; and makes	terms of rigid motions; proves
	G.CO.9		applies geometric theorems;	geometric constructions.	geometric theorems; and uses
	G.CO.10		and identifies geometric		geometric constructions to
	G.CO.11		constructions.		solve problems in context.
	G.CO.12				
	G.CO.13				

ALD	Standard	Beginning Learner	Developing Learner	Proficient Learner	Distinguished Learner
	G.SRT.1	Identifies similarity figures and	Recognizes and identifies	Understands similarity in terms	Analyzes and understands
	G.SRT.2	uses the Pythagorean theorem.	similarity transformations and	of similarity transformations;	similarity in terms of similarity
	G.SRT.3		uses trigonometric ratios to	proves theorems involving	transformations; proves
	G.SRT.4		solve simple problems with right	similarity; and defines	theorems involving similarity;
	G.SRT.5		triangles.	trigonometric ratios and solves	and interprets and defines
	G.SRT.6			problems involving right	trigonometric ratios and solves
	G.SRT.7			triangles.	multistep problems involving
	G.SRT.8				right triangles.
	G.C.1	Calculates the circumference	Understands theorems about	Understands and applies	Understands and applies
	G.C.2	and area of a circle.	circles and finds simple arc	theorems about circles and finds	theorems about circles and
	G.C.3		lengths and areas of sectors of	arc lengths and areas of sectors	uses them in context and uses
	G.C.4		circles.	of circles.	arc lengths and areas of sectors
	G.C.5				of circles to solve problems.
	G.GPE.1	Identifies the center and radius	Identifies the center and radius	Translates between the	Translates between the
	G.GPE.4	of a circle from a graph.	of a circle from an equation.	geometric description and the	geometric description and the
				equation for a circle and uses	equation for a circle and
				coordinates to prove simple	interprets and uses coordinates
				geometric theorems	to prove simple geometric
				algebraically.	theorems algebraically.
	G.MD.1	Calculates volume.	Uses volume formulas to solve	Explains volume formulas and	Explains volume formulas and
	G.MD.2		problems, visualizes two-	uses them to solve problems,	uses them to solve complex
	G.MD.3		dimensional and three-	visualizes relationships between	problems, visualizes
	G.MD.4		dimensional objects, and selects	two-dimensional and three-	relationships between two-
	G.MG.1		geometric concepts to model	dimensional objects, and applies	dimensional and three-
	G.MG.2		situations.	geometric concepts in modeling	dimensional objects, and
	G.MG.3			situations.	applies geometric concepts in
					modeling situations with
					multiple constraints.

ALD	Standard	Beginning Learner	Developing Learner	Proficient Learner	Distinguished Learner
	S.ID.6	Represents data with	Represents data with two	Summarizes, represents, and	Summarizes, represents, and
	S.CP.1	quantitative variables and	categorical and quantitative	interprets data on two	interprets data on two
	S.CP.2	calculates the probability of	variables and calculates the	categorical and quantitative	categorical and quantitative
	S.CP.3	independent events.	probabilities of independent	variables; understands	variables; understands and
	S.CP.4		and dependent events.	independence and conditional	interprets independence and
	S.CP.5			probability and uses them to	conditional probability and
	S.CP.6			interpret data; and uses the	uses them to represent and
	S.CP.7			rules of probability to compute	interpret data; and uses the
				probabilities of compound	rules of probability to
				events in a uniform probability	understand and compute
				model.	probabilities of compound
					events in a uniform probability
					model.