Text/Instructional Material Title: Geometry Virginia Edition

Section I. Correlation with the Mathematics 2009 SOL and Curriculum Framework		Rating	
	Adequate	Limited	No Evidence
G.1	✓		
G.2	✓		
G.3	✓		
G.4	✓		
G.5	✓		
G.6	✓		
G.7	✓		
G.8	✓		
G.9	✓		
G.10	✓		
G.11	✓		
G.12	✓		
G.13	✓		
G.14	✓		

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Car	4: a. II	Additional Cuitoria, Instructional Diamina and Commant		Rating	
Sec	cuon 11.	Additional Criteria: Instructional Planning and Support	Adequate	Limited	No Evidence
1. the	Mater ory.	rials emphasize the use of effective instructional practices and learning	✓		
	a.	Students are guided through critical thinking and problem-solving approaches.	~		
	b.	Concepts are introduced through concrete experiences that use manipulatives and other technologies.	✓		
	c.	Multiple opportunities are provided for students to develop and apply concepts through the use of calculators, computers, and other technologies.	~		
	d.	Students use the language of mathematics including specialized vocabulary and symbols.	~		
	e.	Students use a variety of representations (graphical, numerical, symbolic, verbal, and physical) to connect mathematical concepts.	~		
2.	The n	nathematics content is significant and accurate.	✓		
	a.	Materials are presented in an organized, logical manner which represents the current thinking on how students learn mathematics.	✓		
	b.	Materials are organized appropriately within and among units of study.	✓		
	c.	Format design includes titles, subheadings, and appropriate cross-referencing for ease of use.	√		
	d.	Writing style, length of sentences, vocabulary, graphics, and illustrations are appropriate.	✓		
	e.	Level of abstraction is appropriate, and practical/real-life examples, including careers, are provided.	✓		
	f.	Sufficient applications are provided to promote depth of application.	✓		
3.	Mater	ials present content in an accurate, unbiased manner.	✓		

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Mathe	· · · · · · · · · · · · · · · · · · ·		Rating Scale Please indicate the rating for each by placing are in the appropriate cell.	
		Adequate	Limited	No Evidence
G.1	The student will construct and judge the validity of a logical argument consisting of a set of premises and a conclusion. This will include			
	 a) identifying the converse, inverse, and contrapositive of a conditional statement; 	✓		
	b) translating a short verbal argument into symbolic form;	✓		
	c) using Venn diagrams to represent set relationships; and	✓		
	d) using deductive reasoning.	✓		

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Mathe		Rating Scale Please indicate the in the appropriate	•	by placing an X
		Adequate	Limited	No Evidence
G.2	The student will use the relationships between angles formed by two lines cut by a transversal to			
	a) determine whether two lines are parallel;	✓		
	b) verify the parallelism, using algebraic and coordinate methods as well as deductive proofs; and	✓		
	 solve real-world problems involving angles formed when parallel lines are cut by a transversal. 	✓		

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Mathe	ematics Standard	Rating Scale Please indicate the rating for each by placing ar in the appropriate cell.		
		Adequate	Limited	No Evidence
G.3	The student will use pictorial representations, including computer software, constructions, and coordinate methods, to solve problems involving symmetry and transformation. This will include			
	 a) investigating and using formulas for finding distance, midpoint, and slope; 	✓		
	b) applying slope to verify and determine whether lines are parallel or perpendicular;	✓		
	c) investigating symmetry and determining whether a figure is symmetric with respect to a line or a point; and	✓		
	d) determining whether a figure has been translated, reflected, rotated, or dilated, using coordinate methods.	√		
Comn	nents: Provide comments to support "limited" or "no evidence" ratings.			

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Mathe	ematics Standard	Rating Scale Please indicate the rating for each by placing an in the appropriate cell.		ı by placing an X
		Adequate	Limited	No Evidence
G.4	The student will construct and justify the constructions of			
	a) a line segment congruent to a given line segment;	✓		
	b) the perpendicular bisector of a line segment;	✓		
	c) a perpendicular to a given line from a point not on the line;	✓		
	d) a perpendicular to a given line at a given point on the line;	✓		
	e) the bisector of a given angle;	✓		
	f) an angle congruent to a given angle; and	✓		
	g) a line parallel to a given line through a point not on the given line.	✓		

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Mathe		Rating Scale Please indicate the rating for each by placing are in the appropriate cell. Adequate Limited No Eviden		by placing an X
				Adequate Limited No Evidence
G.5	The student, given information concerning the lengths of sides and/or measures of angles in triangles, will			
	a) order the sides by length, given the angle measures;	✓		
	b) order the angles by degree measure, given the side lengths;	✓		
	c) determine whether a triangle exists; and	✓		
	d) determine the range in which the length of the third side must lie.	✓		
	These concepts will be considered in the context of real-world situations.	✓		

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Mathe	ematics Standard	Rating Scale Please indicate the rating for each by placing ar in the appropriate cell.		
		Adequate Limited No Evid		No Evidence
G.6	The student, given information in the form of a figure or statement, will prove two triangles are congruent, using algebraic and coordinate methods as well as deductive proofs.	√		
Comn	nents: Provide comments to support "limited" or "no evidence" ratings.			

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Math	ematics Standard	Rating Scale Please indicate the rating for each by placing are in the appropriate cell.		
		Adequate	Limited	No Evidence
G.7	The student, given information in the form of a figure or statement, will prove two triangles are similar, using algebraic and coordinate methods as well as deductive proofs.	√		
Comn	nents: Provide comments to support "limited" or "no evidence" ratings.			

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Mathe	ematics Standard	Rating Scale Please indicate the rating for each by placing an in the appropriate cell.		
		Adequate	Limited	No Evidence
G.8	The student will solve real-world problems involving right triangles by using the Pythagorean Theorem and its converse, properties of special right triangles, and right triangle trigonometry.	→		
Comn	nents: Provide comments to support "limited" or "no evidence" ratings.			

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Adequate Limited No Evidence		

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	Rating Scale Please indicate the rating for each by placing an in the appropriate cell.		
	Adequate Limited No Eviden		
G.10 The student will solve real-world problems involving angles of polygons.	✓		
Comments: Provide comments to support "limited" or "no evidence" ratings.			

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Mathematics Standard			Rating Scale Please indicate the rating for each by placing an X in the appropriate cell.		
		Adequate	Limited	No Evidence	
G.11	The student will use angles, arcs, chords, tangents, and secants to				
	a) investigate, verify, and apply properties of circles;	✓			
	b) solve real-world problems involving properties of circles; and	✓			
	c) find arc lengths and areas of sectors in circles.	✓			

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I		Rating Scale Please indicate the rating for each by placing an X in the appropriate cell.		
	Adequate	Limited	No Evidence	
The student, given the coordinates of the center of a circle and a point on the circle, will write the equation of the circle.	√			
, 0				
	The student, given the coordinates of the center of a circle and a point on the circle, will write the equation of the circle.	Please indicate the in the appropriate Adequate The student, given the coordinates of the center of a circle and a point on the circle, will write the equation of the circle.	The student, given the coordinates of the center of a circle and a point on the circle, will write the equation of the circle. Please indicate the rating for each in the appropriate cell. Adequate Limited	

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Mathematics Standard		Rating Scale Please indicate the rating for each by placing an X in the appropriate cell.		
		Adequate	Limited	No Evidence
G.13	The student will use formulas for surface area and volume of three- dimensional objects to solve real-world problems.	√		
Comm	ents: Provide comments to support "limited" or "no evidence" rating	S.		•

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		Rating Scale Please indicate the rating for each by placing an X in the appropriate cell.		
		Adequate	Limited	No Evidence
G.14	The student will use similar geometric objects in two- or three-dimensions to			
	a) compare ratios between side lengths, perimeters, areas, and volumes;	✓		
	b) determine how changes in one or more dimensions of an object affect area and/or volume of the object;	✓		
	c) determine how changes in area and/or volume of an object affect one or more dimensions of the object; and	√		
	d) solve real-world problems about similar geometric objects.	✓		