ARLINGTON COMMUNITY SCHOOLS

Geometry Pacing Guide First Semester

	1st Quarter	TN Standards	Lesson Focus	Additional Notes
	Chap 1 Sections 1-5 12 days	G-CO-A.1 Know precise geometric definitions	Definitions of geometric terms, characteristics of figures, relationships in geometry	
	Chap 2 Sections 3, 5-8 12 days	G-CO-D.9 Prove geometric theorems G-GPE.B.4 Use coordinates to prove geometric theorems algebraically	Transformations, geometric constructions, proofs, modeling	Use constructions to model proofs
	Chap 3 Sections 1-6 12 days	G-CO-D.12 Make geometric constructions G-GPE.B.5 Prove the slope criteria for parallel and perpendicular lines G-GPE.B.6 Partition a segment in a given ratio	Parallel and perpendicular lines, using distance and slope in proofs and modeling	Apply geometric concepts in modeling situations.
	Chapter 9 Sections1-2 5 days	G-CO .A.2 Represent transformations in the plane G-CO.A.3 Describe reflections and rotations	Reflections, translations, rotations, dilations, symmetry	Emphasis on graphing in geometry
	End of 1st Quarter	**District Q1 CFA**		
	2nd Quarter	**TN Standards**	**Lesson Focus**	**Additional Notes**
	Chap 3 Sections 4-6 10 days	G-CO.A.4 Develop definitions of rotations, reflections, and translations G-CO.A.5 Given a figure, draw the given transformation G-CO.B.6Use geometric descriptions of rigid motions to transform figures G-SRT.A.1 The properties of dilations	Reflections, translations, rotations, dilations, symmetry	
	Chapter 4 Sections 1-6 15 days	G-CO.B.7 Congruence in terms of rigid motion: corresponding parts G-CO.B.8 Criteria for triangle congruence: ASA, SAS, SSS G-CO.C.10 Prove theorems about triangles	Triangles: angles, sides, congruence	

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	Chapter 6 Sections 2-6 12 days	G-CO.C.11 Prove theorems about parallelograms	Quadrilaterals	
	Exams and Review 5 days			
	End of 2nd Quarter	**DIstrict Quarterly CFA**		
	End of 1st Semester			

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	3rd Quarter	TN Standards	Lesson Focus	Additional Notes
	Chap 7 Sec 1-5 10 days	G-SRT.A.2 Similar Figures and Proportional Parts G-SRT.A.3Establish AA criterion for similarity G-SRT.B.5 Use congruence and similarity criteria to solve problems and prove relationships	Proportions and similarity	Emphasize similarity using transformations
	Chap 8 Sec 1,2,4,5 10 days	G-SRT.B.4 Use Pythagorean Theorem to prove triangle similarity G-SRT-C.6 Trigonometry ratios G-SRT-C.7 Relationship between sine and cosine of complementary angles G-SRT-C.8 Use trig rations and Pyth Thm to solve applied problems	Trig ratios, Pythagorean theorem, angles of elevation and depression	Relationship between sine and cosine of complementary angles
	Chap 10 Sec 1-8 20 days	G-CO.D.13 Construct figures inscribed in a circle G-CO.A.1 Know precise definitions of circle, distance around an arc G-C.A.1 Prove all circles are similar G-C.A.2 Identify and describe relationships among angles, radii, and chords G-C.A.3 Construct inscribed and circumscribed circles of figures, and prove properties of angles for an inscribed quadrilateral G-D.B.5Derive using similarity the length of the arc intercepted by an angle is proportions to the radius, formula for the area of a sector G-GPE.A.1 Equation of a circle, complete the	Circles: parts, properties, relationships, inscribed and circumscribed figures, equation of a circle	Emphasize inscribed angles, equations of a circle, inscribed figures

		square to find the center and radius		
	End of 3rd Quarter	**District Q3 CFA**		
	4th Quarter	**TN Standards**	**Lesson Focus**	**Additional Notes**
	Chapter 11 Sections 1-5 10 days	G-GPE.B.7 Use coordinates to compute perimeters G-GMD.A.1 Formulas for the circumference of circle, area of a circle	Area formulas for geometric figures	
	Chapter 12 Sections 1, 4-6 10 days	G-GMD.A.3 Use volume formulas for cylinders, pyramids, cones, and spheres G-MG.A.1 Use geometric shapes, their measures and properties to describe objects G-MG.A.2 Apply concepts of density based on area and volume in modeling situations G.MG.A.3 Apply geometric methods to solve design problems G.GMD.B.4 Identify the shapes of 2-D cross sections of 3-D objects and identify 3-D objects generated by rotations of 2-D objects	Volume, cross sections, density	
	Chapter 12 Sections 2-3, 7-8 10 days		Surface area of 3-D figures, congruent and similar solids, spherical geometry	
	Final Exam and Review 8 days			
	End of 4th Quarter			
	End of 2nd Semester			