

Geometry PreAP/GT Year at a Glance (YAG) 2021-2022



First Semester		Second Semester		
1 st Nine Weeks – 41 days		3 rd Nine Weeks – 43 days		
(September 6^{th} – Labor	day – No School)	(January 17 th – MLK	(– No School)	
(October 11 th – Staff De	evelopment)	(February 21 th – President's Day)		
текс		(Marcn / - 11 - 5)	bring Break)	
G.2A, G.2B, G.4A, G.5A, G.5B, G.5C, G.6A	Unit 1: Tools of Geometry (27) Students will use basic geometric concepts and properties to solve problems. Students will identify and model points,	G.2B, G.5A, G.6E	Unit 6: Polygons (12) Students will identify and name polygons. Students will find and use the sum of the measures of the interior angles of a	
	lines and planes. Students will identify intersecting lines and planes. Students will distinguish between undefined terms, definitions, postulates, conjectures and theorems. Students will identify angle relationships.		polygon. Students will find and use the sum of the measures of the exterior angles of a polygon. Students will recognize and apply properties of quadrilaterals. Students will compare quadrilaterals.	
G.1A, G.1G, G.4B, G.4C, G.5A, G.6A	Unit 2: Logic (12) Students will make conjectures and find counterexamples for statements. Students will analyze if-then statements, and write the converse, inverse and contrapositive of if-then statements. Students will use deductive reasoning to reach valid conclusions. Students will use algebra to write two-column proofs. Students will use properties of equality to	G.6D, G.7A, G.7B, G.8A, G.10B	Unit 7: Similarity & Proportions (9) Students will identify similar polygons and use ratios and proportions to solve problems. Students will identify similar triangles and use similar triangles to solve problems. Students will use proportional parts within triangles, and use proportional parts with parallel lines.	
	Write geometric proofs.	G.6D, G.9A, G.9B	Unit 8: Right Triangles and Trigonometry Part 1 (22) Students will use the Pythagorean Theorem and the Converse of the Pythagorean	
G.1A, G.1B, G.1D, G.1G, G.2B, G.2C, G.5A, G.5B, G.6A	Students will identify and prove angle relationships that occur with parallel lines and a transversal. Students will find slopes of lines and use slope to identify parallel and perpendicular lines. Students will write an equation of a line given information about the graph. Students will solve problems by writing equations.		Theorem. Students will apply the relationships in special right triangles 30,60, 90 and 45,45, 90 and the Pythagorean Theorem to solve problems. Students will determine the lengths of sides and measures of angles in a right triangle by applying the trigonometric ratios Sine, Cosine, and Tangent to solve problems. Students will determine the values of trigonometric functions at the special angles and relate them in mathematical and real-world problems.	
	RTI (1)		RTI (1)	

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			Early Release (1)	
2 nd Nine Weeks – 42 days		4 th Nine Weeks – 51 days		
(October 14 th – December 17 th)		(March 14th - May 25th)		
(November $22^{\text{m}} = 20^{\text{m}} = (\text{December } 20^{\text{th}} = 31^{\text{th}} = 10^{\text{th}}$	Holiday Break)	(April 8 th – Battle of Flowers – No School) (April 15 th – Good Friday – No School)		
	Thomay Break	(May 30 th – Memoria	al Day – No School)	
TEKS				
	Unit 4: Triangles (15)		Unit 8: Right Triangles and	
	Students will apply special relationships	G.6D, G.9A,	Trigonometry Part 2 (9)	
G.5A, G.6B, G.6D	about the interior and exterior angles of	G.9B	Students will solve problems involving	
	triangles.		angles of elevation and depression and find	
	Students will identify corresponding parts		the distance between two objects.	
	of congruent triangles and prove triangles		Students will use the Law of Sines and the	
	congruent.		Law of Cosines to solve triangles.	
	Students will learn about the special			
	properties of isosceles and equilateral			
	triangles.			
			Unit 9: Circles (12)	
		G 5A G 12A	Students will identify and use parts of	
	Unit 5: Triangle Relationships (7)	G.12B. G.12D	Clicies.	
	Students will verify identify and use		circumference of circles	
G.5D, G.6A,	perpendicular bisectors, angle bisectors,		Students will learn the relationships	
G.5D, G.6D	medians and altitudes in triangles.		between central angles, inscribed angles.	
	Students will recognize and apply		arcs, and chords in circles.	
	properties of inequalities to the measures		Students will apply properties of tangents	
	of the angles of a triangle, and to the		and solve problems involving circumscribed	
	relationships between the angles and sides		polygons.	
	of a triangle.		Students will find measures of angles	
	Students will use the Triangle Inequality		formed by lines intersecting inside a circle,	
	Theorem to identify possible triangles, and		on a circle or outside a circle.	
	to prove triangle relationships.			
	students will apply the Hinge Theorem or			
	triangles and to prove triangle		Unit 10: Area (15)	
	relationshins		Students will find norimeters and areas of	
		G.10B, G.11A,	nolygons	
		G.11B, G.12C	Students will apply the formula for the area	
			of regular polygons to solve problems using	
			appropriate units of measure.	
			Students will find areas of circles, and areas	
			of sectors of circles.	
			Students will find areas of composite	
			figures.	
			Students will apply area formulas to solve	
			application problems.	
	PSAT (1)		RTI (1)	
	Early dismissal (1)		EOC (1)	
	Review (3)		Review (3)	
	Semester Exams (4)		Semester Exams (4)	

Resources							
1st Nine Weeks 2nd Nine Weeks 3rd Nine		3rd Nine Weeks	4th Nine Weeks				
McGraw-Hill Geometry All Things Geometry							



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