



**GEOMETRY**  
**Year at a Glance (YAG)**  
**2021-2022**



First Semester		Second Semester	
<b>1<sup>st</sup> Nine Weeks – 41 days</b> (August 16 <sup>th</sup> – October 13 <sup>th</sup> ) <i>(September 6<sup>th</sup> – Labor day – No School)</i> <i>(October 11<sup>th</sup> – Staff Development)</i>		<b>3<sup>rd</sup> Nine Weeks – 43 days</b> (January 3 <sup>rd</sup> – March 4 <sup>th</sup> ) <i>(January 17<sup>th</sup> – MLK – No School)</i> <i>(February 21<sup>th</sup> – President's Day)</i> <i>(March 7<sup>th</sup> – 11<sup>th</sup> – Spring Break)</i>	
TEKS G.1A-G.1G G.4A, G.2B, G.5B, G.10B, G.2A, G.11C, G.11D G.1G, G.5A, G.5D, G.6A, G.6D, G.2B, G.2C	<p><b>Tools of Geometry Unit 1 (12)</b>            Students will use basic geometric concepts and properties to solve problems.            Students will identify and model points, 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.</p> <p><b>Reasoning and Proof Unit 2 (5)</b>            Students will make conjectures and find counterexamples for statements.            Students will use deductive reasoning to reach valid conclusions.</p> <p><b>Parallel and Perpendicular Lines Unit 3 (12)</b>            Students will identify and prove angle relationships that occur with parallel lines and a transversal.</p>	TEKS G.1A-G.1G, G.5A, G.5D, G.6B, G.6C, G.6D, G.7A, G.8B, G.9A, G.9B	<p><b>Quadrilaterals Part 2 Unit 6 (12)</b>            Students will recognize and apply properties of quadrilaterals.            Students will compare quadrilaterals.</p> <p><b>Proportions and Similarity Unit 7 (8)</b>            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.</p> <p><b>Right Triangles and Trigonometry Part 1 Unit 8 (5)</b>            Students will use the Pythagorean Theorem and the Converse of the Pythagorean Theorem.</p>
	RTI Diagnostic 1 day		RTI Diagnostic 1 day Early Release 1 day



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2 <sup>nd</sup> Nine Weeks – 42 days (October 14 <sup>th</sup> – December 17 <sup>th</sup> ) (November 22 <sup>nd</sup> – 26 <sup>th</sup> – Thanksgiving Break) (December 20 <sup>th</sup> – 31 <sup>st</sup> – Holiday Break)	4 <sup>th</sup> Nine Weeks – 51 days (March 14 <sup>th</sup> – May 25 <sup>th</sup> ) (April 8 <sup>th</sup> – Battle of Flowers – No School) (April 15 <sup>th</sup> – Good Friday – No School) (May 30 <sup>th</sup> – Memorial Day – No School)
<p>TEKS            G.1A-G.1G,            G.5A,G.6D,            G.6B, G.5B,            G.6C, G.2B,            G.5A,G.6E,            G.2B,            G.5C,G.5D</p>	<p><b>Congruent Triangle Unit 4 (7)</b>            Students will apply special relationships about the interior and exterior angles of triangles.            Students will identify corresponding parts of congruent triangles and prove triangles congruent.            Students will learn about the special properties of isosceles and equilateral triangles.</p> <p><b>Relationships in Triangles Unit 5 (7)</b>            Students will verify, identify and use perpendicular bisectors, angle bisectors, medians and altitudes in triangles.            Students will recognize and apply properties of inequalities to the measures of the angles of a triangle, and to the relationships between the angles and sides of a triangle.            Students will use the Triangle Inequality Theorem to identify possible triangles, and to prove triangle relationships.</p> <p><b>Quadrilaterals Part 1 Unit 6 (8)</b>            Students will identify and name polygons. Students will find and use the sum of the measures of the interior angles of a polygon.            Students will find and use the sum of the measures of the exterior angles of a polygon.</p> <p>PSAT 1 day            Early dismissal 1day            Review 3 days            Semester Exams 4 days</p>
<p>TEKS            G.1A-G.1G,            G.6D, G.7A,            G.8B, G.9A,            G.9B,            G.12A,            G.12B,            G.12D,            G.10B,            G.11A,            G.11B,            G.12C</p>	<p><b>Right Triangles and Trigonometry Part 2 (10)</b>            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.            Students will solve problems involving angles of elevation and depression and find the distance between two objects.</p> <p><b>Circles Unit 9 (10)</b>            Students will identify and use parts of circles.            Students will solve problems involving circumference of circles. Students will learn the relationships between central angles, arcs, and chords in circles.</p> <p><b>Areas of Polygons and Circles Unit 10 (10)</b>            Students will find perimeters and areas of polygons.            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.</p> <p>RTI Diagnostic 1 Day            EOC 1 Day            Review 3 Days            Semester Exams 4 Days</p>

Resources

1st Nine Weeks	2nd Nine Weeks	3rd Nine Weeks	4th Nine Weeks
All things Geometry	All things Geometry	All things Geometry	All things Geometry



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McGraw-Hill Geometry	McGraw-Hill Geometry	McGraw-Hill Geometry	McGraw-Hill Geometry
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