

**Geometry Curriculum**  
**Gasconade County R-2 School District**

Grade Level: 10-12

Subject: Math

Month	Unit	Mathematics Missouri Learning Standards	Key Mathematics and Academic Vocabulary	MathLinks to New MLS	Essential Questions
August	1.1	CO A1	point line plane collinear coplanar intersection	<a href="#">Item Specification Reports</a>	The student will identify and model points, lines, and planes. The student will identify intersecting lines and planes.
	1.2	CO B6 CO D11(1.2)	line segment congruent rigid transformation constructions distance irrational numbers	<a href="#">6-12 Missouri Learning Standards</a>	The students will find the distance between two points by using the Distance Formula.
	1.3	GPE B5	midpoint segment bisector	<a href="#">7-12 Math Glossary</a> <a href="#">Missouri EOC Math Reference Sheet</a>	The students will find the midpoint of a segment. The students will locate a point on a segment given a fractional distance from one endpoint.
	1.4	CO A1	ray angle vertex degree interior/exterior of angle right, acute, obtuse angles angle bisector	<a href="#">End of Course Blueprints</a>	The student will measure and classify angles. The student will identify and use congruent angles and the bisector of an angle.  The student will identify and use special pairs of angles. The student will identify perpendicular lines.

	1.5	CO C8 CO A1	adjacent angles linear pair vertical angles complementary angles supplementary angles perpendicular		
September	1.6	GPE B6 MG A1 C B5 GPE B6	polygon concave convex n-gon equilateral polygon equiangular polygon regular polygon perimeter circumference area		<p>The students will use the key characteristics to identify and name polygons. The student will find perimeter, circumference, and area of two-dimensional figures.</p> <p>The student will identify and name three-dimensional figures. The student will find surface area and volume.</p>
	1.8	GMD A1 GMD A2	face edge prism base pyramid cylinder cone sphere surface area volume		<p>The student will understand and use the reflexive, transitive, &amp; symmetric properties to prove theorems about lines and angles. The student will name angle pairs formed by lines and transversals. The student will use theorems to determine the relationships between specific pairs of angles.</p>
	2.7	CO C8	reflexive property symmetric property transitive property transversal exterior angles consecutive interior angles alternate interior angles alternate exterior angles corresponding angles		<p>The student will find the slope of a line and use slope to write the equation of a line. The student will use slope to identify parallel and perpendicular lines.</p> <p>The student will prove that two lines are parallel using angle relationship theorems.</p>

	2.8	GPE B4	slope slope-intercept form point-slope form		
	2.9	CO C8			
October	1.7	CO A2 CO A4 CO A5	transformation image preimage reflection translation rotation		The student will identify reflections, translations, and rotations. The student will calculate the coordinates of the vertices of images after reflection, translation, and rotation given the coordinates of the preimage.
	3.5		symmetry line of symmetry rotational symmetry center of symmetry		The student will use line symmetry to describe the reflection that carry a figure onto itself. The student will use rotation symmetry to describe the rotations that carry a figure onto itself.
November	4.1	CO C9	exterior angles remote interior angles		Students will apply the Triangle Angle-Sum Theorem and the Exterior Angle Theorem.
	4.2	CO C9 SRT B4	congruent polygons corresponding parts		The student will name and use corresponding parts of congruent polygons. The student will prove triangles congruent using the definition of congruence.

	4.3	CO C9 SRT A2 SRT B4	side, side, side congruence side, angle, side congruence included angle		<p>The student will use the SSS or SAS Postulates to test for triangle congruence.</p> <p>The student will use the ASA, AAS, HL congruence criterion to prove triangles congruent.</p>
	4.4	CO C9 SRT A2 SRT B4	included side angle, side, angle congruence angle, side, angle congruence hypotenuse leg congruence		<p>The student will identify isosceles and equilateral triangles, and use their key characteristics to solve problems.</p>
	4.6	CO C10	isosceles triangles equilateral triangles		<p>The student will identify and use perpendicular bisector and angle bisector in triangles.</p> <p>The student will identify and use medians and altitudes in triangles.</p>
	5.1	CO C10 C A3	perpendicular bisectors circumcenter		
	5.2		median altitude		
December					

January					
February					
March					
April					

May					