

Teacher / Team Name: Geometry Honors

Topic: Unit 1: Tools of Geometry (HON)

Days: 10

Subject(s): Math

Grade(s): 9th, 10th, 11th, 12th

Know:

Understand:

Do:

<p><b>Key Vocabulary</b> Undefined Terms Angle Relationships Congruent Construction Distance Formula Midpoint Formula</p>	<p>Geometric figures and terms will be understood and used.</p>	<p>Identify and model points, lines, and planes. Identify intersecting lines and planes. Use correct mathematical terminology to describe geometric figures. Measure Segments Calculate with measures Find the distance between two points. Find the midpoint of a segment. Measure and classify angles. Identify and use congruent angles and the bisector of an angle.</p>
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Which standards are students learning in this unit?

MA.912.G.1.1: Find the lengths and midpoints of line segments in two-dimensional coordinate systems.

MA.912.G.4.2: Define, identify, and construct altitudes, medians, angle bisectors, perpendicular bisectors, orthocenter, centroid, incenter, and circumcenter.

MA.912.G.8.1: Analyze the structure of Euclidean geometry as an axiomatic system. Distinguish between undefined terms, definitions, postulates, and theorems.

MA.912.G.8.2: Use a variety of problem-solving strategies, such as drawing a diagram, making a chart, guess-and-check, solving a simpler problem, writing an equation, and working backwards.

MA.912.G.8.3: Determine whether a solution is reasonable in the context of the original situation.

MA.912.G.2.1 Identify and describe convex, concave, regular and irregular polygons

MA.912.G.2.5 Explain the derivation and apply formulas for perimeter and area of polygons

LA.1112.1.6.2 The student will listen to, read, and discuss familiar and conceptually challenging text;