

# UNIT 6 - LESSON PLANS

**Class** Geometry    **Topic** U6 – The Polygon Angle Sum Theorems    **Lesson** 1    **Of** 9

Students will:

**Objective**

- Students will be able to find the sum of the measure of the interior angles of polygons and discover the Interior Angle Sum Theorem and how it works.

**“I Can” Statement**

- I can find missing angles of polygons both interior and exterior.

[CCSS.MATH.CONTENT.HSG.CO.C.10](#)

Prove theorems about triangles. *Theorems include: measures of interior angles of a triangle sum to  $180^\circ$ ; base angles of isosceles triangles are congruent; the segment joining midpoints of two sides of a triangle is parallel to the third side and half the length; the medians of a triangle meet at a point.*

**Common Core Standards**

[CCSS.MATH.CONTENT.HSG.CO.D.12](#)

Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.). *Copying a segment; copying an angle; bisecting a segment; bisecting an angle; constructing perpendicular lines, including the perpendicular bisector of a line segment; and constructing a line parallel to a given line through a point not on the line.*

**Bell Work**

See 6-1 Bell Work

**Procedures**

1. Start and lead student discussion related to the bell work.
2. Distribute the Guided Notes
3. Present lesson or play a video lesson.

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4. Do 6-1 Class Activity.
6. Distribute Lesson Assignment.
7. Exit Slip

## Assessment

Bell Work 6-1  
Assignment 6-1  
Exit Slip 6-1

## Additional Resources

See Online Activities