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

|  |  |
| --- | --- |
| **Objective** | Students will:   * 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. |

|  |  |
| --- | --- |
| **Common Core Standards** | [CCSS.MATH.CONTENT.HSG.CO.C.10](http://www.corestandards.org/Math/Content/HSG/CO/C/10/) Prove theorems about triangles. *Theorems include: measures of interior angles of a triangle sum to 180°; 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*. |
| [CCSS.MATH.CONTENT.HSG.CO.D.12](http://www.corestandards.org/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.  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 |