|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Class** | Geometry | **Topic** | U1 – Classifying Polygons | **Lesson** | 6 | **Of** | 8 |

|  |  |
| --- | --- |
| **Objective** | Students will:   * Be able to identify the 2-dimensional polygons. * Be able to identify the properties of polygons. * Understand the angles and sides associated with each polygon. |
|  |  |
| **“I Can” Statement** | I can identify any 2-dimensional polygon based on its properties. |
|  |  |

|  |  |
| --- | --- |
| **Common Core Standards** | [CCSS.MATH.CONTENT.5.G.B.4](http://www.corestandards.org/Math/Content/5/G/B/4/) Classify two-dimensional figures in a hierarchy based on properties.  [CCSS.MATH.CONTENT.8.G.A.5](http://www.corestandards.org/Math/Content/8/G/A/5/) Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles. *For example, arrange three copies of the same triangle so that the sum of the three angles appears to form a line, and give an argument in terms of transversals why this is so*.  [CCSS.MATH.CONTENT.HSG.MG.A.1](http://www.corestandards.org/Math/Content/HSG/MG/A/1/) Use geometric shapes, their measures, and their properties to describe objects (e.g., modeling a tree trunk or a human torso as a cylinder).\* |
|  |  |

|  |  |
| --- | --- |
| **Bell Work** | Teacher can introduce Pac Man and explain the shape of his mouth as the concave part of his face. Similarly a picture of a stick man in a cave can be used to illustrate this teaching point. Once understood, Pac Man can be used to contrast convex shapes. For convex polygons, the shape of a traditions house rooftop will justify for a visual explanation. |

|  |  |
| --- | --- |
| **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. Have students work together through Graphic Organizer activity.  5. Distribute Assignment. |

|  |  |
| --- | --- |
| **Assessment** | Assignment 1-6  Graphic Organizer  Exit Quiz 1-6 |

|  |  |
| --- | --- |
| **Additional Resources** | Khan Academy Quiz |