

UNIT 1 - LESSON PLANS

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](#)

Classify two-dimensional figures in a hierarchy based on properties.

[CCSS.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](#)

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.

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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