UNIT 1 - LESSON PLANS

Class G	eometry	Topic	U1 – Classifying Polygons	Lesson	6	Of	8
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Students will:

Objective

- Prompt questions such as: What particular shape makes it concave or convex? What big or small do the angles have to be classified as convex or concave?
- Students should be able to explain their reasoning about their choices with mathematical vocabulary such as reflex, greater than 180 degrees, obtuse angle, and acute angle.
- Relate Algebra equations to the sides and angles of polygons.

"I Can" Statement

I can verbally describe different concave and convex using the proper vocabulary.

Solve problems related to the sides and angles of polygons.

CCSS.MATH.CONTENT.5.G.B.4

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

CCSS.MATH.CONTENT.8.G.A.5

Common Core Standards

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

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used to contrast convex shapes. For convex polygons, the shape of a traditions house rooftop will justify for a visual explanation.

2. Distribute the Guided Notes

Procedures

- 3. Present lesson or play a video lesson.
- 4. Have students work together through Graphic Organizer activity.
- 5. Distribute Assignment.

Assignment 1-6

Assessment

Graphic Organizer

Exit Quiz 1-6

Additional Resources

Khan Academy Quiz