

Geometry Scavenger Hunt

Project Description:

Using the following clues, you must collect as many of the items in the list as possible. Each item must have a clear statement of what you did to find the item and where the item was located. If an item cannot be physically removed from its location, a sketch or photograph of the item is acceptable. Finally, explain in writing how polygons and angles are important to us in everyday life.

Find the Following:

1) An angle that is a wedge

Measure the angle. If the angle were increased by 30° , what impact would it have on its original function?

2) An architectural design (building) that uses three different polygons, one of which must have more than four sides

Name each polygon and accurately measure the sides of the polygon. Select a scale that would allow you to draw your polygon on paper. Now try to create a new polygon using the same length sides as the original. Are your two polygons similar? Why or why not?

3) An object that is made up of circles of different sizes

Describe how these circles contribute to the function of this object. What would happen if the circles were replaced with quadrilaterals? Pentagons? Hexagons?

4) A piece of furniture that has moveable angles that add to the function of the piece

Focus on one of the angles in the furniture that changes sizes. What is the range of angle measures that the furniture allows? How would the furniture change if the angle you have been exploring had a greater range of motion? Sketch your answer.

5) A piece of furniture that has no angles

6) Three common kitchen objects

Find three household tools that could be examples of vertical angles. Sketch the tools, measure and label the vertical angles in your sketch. Are the actual angles formed by the tools equal to the angles in your sketch? Explain.

7) Four different polygons that are used for traffic signs

Explain how the shape is important to the traffic sign's function. Determine the sum of the interior angles in each traffic sign. Measure the angles and compare to your prediction.