Geometry

Performance Task Objectives

- Identify and describe the following: intersecting, parallel, and perpendicular lines
- Identify and describe angles
- Identify and describe characteristics such as symmetry, congruence, and similarity in geometric figures

Sunshine State Standards

- MA.C.1.2.1
- MA.C.2.2.1

Materials

- Student recording sheet
- Pattern blocks
- Rulers
- Thin markers or colored pencils (red, blue, green, brown, purple, yellow, black)
- Paper and pencil

Student arrangement

- Individual or small group

Task

Present the problem on the student Recording Sheet to your students.

Performance Criteria

- Does the student correctly identify and describe geometric shapes?
- Does the student correctly identify and describe intersecting, parallel, and perpendicular lines?
- Does the student correctly identify and describe angles?
- Does the student correctly identify and describe symmetry, congruence, and similarity in geometric figures?
Name __________________________________

Part I

1. Use pattern blocks to fill in the shape on the attached paper.
2. Using a pencil, trace each pattern block in your figure.
3. Complete the following chart to indicate the pattern blocks used.

<table>
<thead>
<tr>
<th>Name of Polygon</th>
<th>Color of Pattern Block</th>
<th>Number Used</th>
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Part II

On your figure from Part I, **draw or trace** the following.

A. A set of parallel lines in red
B. Intersecting lines in blue
C. Perpendicular lines in green
D. An acute angle in purple
E. An obtuse angle in yellow
F. A line of symmetry in black

Part III

Choose 2 different pattern blocks.

1. Identify and describe each using geometric terms.

2. Explain or make a chart in which you tell at least 3 likenesses and 3 differences in the geometric characteristics of these two polygons. (Use geometric terms.)