

Worthwhile Task Assignment  
GAPS Workshop: Making It Happen - Math K-12

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**Task Name:** "Shapes to Patterns"

**Common Curriculum Goal:** Algebraic Relationships

**Level:** Primary (Kindergarten)

**Strand or Benchmark:** Patterns and Functions

MA.00.AR.01 Sort, classify, and order objects by size, color, shape, or other properties.

MA.00.AR.03 Copy and extend patterns using concrete objects.

**Core Math:** Recognizing that shapes have curved or straight sides and different numbers of sides.

**Area of Implementation:** The task can be used during the study of patterns and shapes after the concepts of patterning and shapes have been introduced.

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### Shapes to Patterns

#### Task 1

Take 3 shapes and make a pattern. How many patterns can you make?

1. Draw a picture of your pattern.
2. Tell a partner about your pattern.

#### Extensions of Task 1:

1. Make a pattern with only straight sides.
2. Make a pattern with curved sides.

3. Make a pattern with shapes and colors.
4. Make a pattern with shapes, colors, and sizes.
5. Draw a picture of your pattern.
6. Find the numbers of sides that certain shapes have.

\*Adapted from Family Math for Young Children by Coates and Davila, 1987.

Materials Needed:

Manipulatives:

Plastic or wooden shapes: circle, square, triangle, rectangle, and oval

Provide at least 6-8 of each shape of varying colors and sizes

Paper

Pencils

Crayons

Markers