

## Child's Growth and Learning

**Domain:** Mathematics

**Key Element:** Geometry and Spatial Sense

ACTIVITY	OBJECTIVES	MATERIALS
Shape Pictures	<p>Student will match picture of triangle, circle, and rectangle from a spinner with shapes in various sizes from construction paper.</p> <p>Student will count with 1:1 correspondence the number of pips on a large die.</p> <p>Student will label shapes as they describe spinner activity.</p>	<p>Spinner divided into thirds labeled circle, triangle, and rectangle with accompanying picture</p> <p>Large foam or regular die with pips from 1 through 6</p> <p>Large piece of white or black construction paper, glue stick</p> <p>Pre-cut various sizes of multiples of triangles, circles, and rectangles</p>

### **Lesson Plan**

In a learning center, teacher prepares the materials and setting for use. Teacher pre-cuts shapes of circles, triangles and rectangles of various sizes. Using a spinner divided into thirds labeled circle, triangle and rectangle (with pictures), and a die with pips from 1 through 6, students spin the spinner and roll the die, select the appropriate number of the shapes indicated, and repeat the process once more. They then make pictures using the shapes they selected. Children display their pictures and describe their constructions using shapes and position words. The pictures can be quite interesting. Squares become animals, houses, or robots. Circles are often used as parts of flowers, the sun, or spots on a dog. Triangles become people's heads, tops of buildings, or race cars.

### **Guidance/Facilitation/Teacher Behaviors**

In a learning center, teacher will prepare the materials and introduce the activity. Teacher will talk with student about their art creation using questioning and descriptive words to call attention to the picture as well as naming the shapes used in creating the picture.

### **Procedure/Process/Expected Child Behaviors**

Student will compose a picture using specified numbers of circles, triangles, and rectangles. Student will use imagination to create a picture using the shapes.

### **Extensions**

Students may cut multiples of shapes in various sizes from construction paper to use scissor skills. Teacher may first play a game with students called Mystery Shapes to re-introduce the shapes being presented in the activity. The teacher or a student hides a three-dimensional shape in a box. The teacher or student gives clues, and other students try to guess the hidden shape. For example, a student's clues for a rectangular block might include, "It's shaped like a cereal box. What shape do I have?"

### **Evaluation**

Students will describe to the facilitator or teacher their constructions using shape and position words.