

Subject: Mathematics

Grade: Kindergarten

Standard: #1 Whole-Number Sense

Key Concept: Objects have various characteristics which can be used to group them.

Generalization: Use shape, color, & size to sort objects and explain grouping.

Background:

Before beginning this activity, students have been exposed to the primary colors - red, yellow, blue, basic shapes, and the concept of size, e.g. small, medium, large.

20 Thinking Questions for Shapes and Sizes Attribute Pieces, Creative Publications, ISBN#1-56107-793-3.

Materials needed are shapes and sizes attribute pieces, paper, pencils, and crayons for recording.

This lesson is tiered in *process* according to *readiness*.

Each tier will answer Question 5 from 20 Thinking Questions for Shapes and Sizes Attribute Pieces, “Can you find the same size and a different color?”

Tier I: ***Basic Learners***

Given a set containing circles, squares, and triangles in two sizes and three colors, students will be asked to find the large red circle and then asked Question 5. Students will make a drawing of the shapes and explain how they know the shapes are the same size and a different color.

**Tier II: *Grade Level Learners***

Given a set containing circles, squares, triangles, and rectangles in two sizes and three colors, students will be asked to find the large yellow rectangle and then asked Question 5. Students will make a drawing of the shapes and explain how they know the shapes are the same size and a different color.

**Tier III: *Advanced Learners***

Given a set containing circles, squares, triangles, rectangles, and hexagons in two sizes, three colors, and two thicknesses, students will be asked to find the small blue triangle and then asked Question 5. Students will make a drawing of the shapes and explain how they know the shapes are the same size and a different color.

**Assessment:**

Teacher may assess by observation while students are working on their investigations. The teacher should check for accuracy when students initially identify the specified object. The teacher should also check the drawings for errors and misconceptions.