

2 Develop the Concept: Interactive



30 min

Interactive Learning

Overview Children will sort paper circles into groups by size and color.



Essential Question How does looking at the colors and shapes of objects in a set help you sort them in two ways?

Materials Large brown bag, small brown bag; (per child); crayons (blue, yellow), glue, blunt-tipped scissors, Sort (Teaching Tool 3), attribute blocks: large circles (blue, yellow) and small circles (blue, yellow)



Set the Purpose Remind children that they learned how to sort objects into different groups. *You will learn how to sort the same objects in different ways.*

Connect Display 1 large brown bag and 1 small brown bag. *How are these bags the same?* [Both are brown.] *How are they different?* [They are different sizes.]

Pose the Problem

There are 6 balls in the grass. You want to sort the balls in two ways. What do you need to know about the balls? Have children share ideas about sorting them.

Model

In random order, place 2 big blue circles and 1 small blue circle on your left workmat. Then add 1 big yellow circle and 2 small yellow circles. *Let's pretend these are the balls in the grass. You can use paper circles to show the balls. Put your circles on the mat. I see one way we can sort the balls—by size. I will put all the big balls in one group and the balls that are not big in another group.* Move the big circles to the top of the mat and the small circles to the bottom. Have children do the same. *Look at the circles at the top of the mat. Why do these circles belong together?* [They are all big circles.] Then have children color the paper circles to match the colors of the attribute blocks. Ask children to sort the circles by color and then glue the group of big circles on the left workmat.

Small Group Interaction

Have partners listen to this problem: *You are sitting on the floor with these 6 marbles. You want to sort the marbles in two ways. Place 1 big and 2 small yellow circles on the right workmat.* Provide prompts, such as: *Think about different sizes and different colors.* Children sort and then glue the yellow circles.



What would be two different ways to sort a group of footballs and basketballs? [You could sort them by shape and by color.]



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