

Project 14

Interesting Groups

Objective: Child will understand the directionality of addition.

Essential Question(s): How can we use grouping to better understand addition?

Special Materials: A deck of cards without the kings, queens, and jacks; pencil and paper.

Bricks Required: 9 1x2 bricks of two different colors, 16x16 plate

Project Structure:

Engage/Explain:

1. Prepare two kinds of small objects to count, perhaps pencils and crayons, and ask child how many objects there are all together.
 - a. Lead the child in counting pencils and crayons, recording the results, and writing an addition sentence.
 - b. Ask if the result would be different if the crayons were counted first; do so, writing a new addition sentence.
 - c. Explains how addition does not change, even if done in a different order.

Explore:

1. Hand out cards to child (at least one each of denominations 1 through 9).
2. Child draws two cards from a deck, then uses two different colors of bricks to create groupings on the plate and record the equation on a piece of paper.
 - a. Child then takes the same number of bricks in the same colors, but swaps them to create a new equation that yields the same result, recording the new equation.

