

Viewer Worksheet for: *Supporting Mathematical Development in Young Children:* Number Operations

This [video](#) describes an emerging awareness that numbers can be combined or taken apart. Adults can support children to use this knowledge when solving problems.

Routine – During their arrival routine, a teacher counts with children the number of friends who have arrived at school so far. He then prompts them to show him that number with their fingers. After one child shows a five on one hand and three on the other, the teacher leads them in a song “*five and three make eight*”.

Additional ideas for integrating use of number operations during routines:

Explicit Teaching – During a small group activity, a teacher plays a number game with four children. They roll a die and decide if they have to add to or take away from the group to make the number of cubes equal the number of dots.

Additional strategies for supporting an understanding of number operations:

Play – While a child is using constructing a play fort, he looks for additional poles to create another “room”. The adult has told him that he will need 3 more poles. The child counts out two poles and returns to continue building. The adult mentions that he has two poles and that one more pole will make three.

Additional ideas for including number operations in play:

A lot of mathematics learning occurs within the context of classroom play, especially when teachers are talking with children about how to solve problems involving number.

What are some vocabulary words that adults could use with children to support their understanding of number operations?

Identify the materials that you noticed in the video:

What are some additional types of items that would lend to children's development of an understanding of number operations?

A meaningful curriculum is integrated so that learning experiences include many developmental domains and content areas. This video focused solely on mathematics. Think about ways that number operations could be integrated into a larger topic of study in meaningful ways.

Topic: _____

Write your ideas here.