

Instructional Unit Title: Put it Together and Take it Apart

Mathematics
Kindergarten

The teacher may provide five linking cubes of the same colors to partners so that students can practice decomposing the number five.

The teacher may bring groups of five students to the front of the classroom:

- one student has an addition symbol
- one student has an equal symbol
- two students use fingers to show a quantity on one hand
- one student shows the sum using his fingers

so that students can gain comfort with the meaning of the addition and equal symbols and the format of the addition equation.

The teacher may provide students with five pennies so that students can begin decomposing the number five.

The teacher may provide “join” words problems with combinations of numbers to five so that students can represent and solve addition word problems.

The teacher may demonstrate how to play “race to zero” (or any subtraction from ten game) so that students can practice subtraction within ten.

The teacher may provide students with ten pennies so that students can begin decomposing the number ten.

The teacher may provide “separate” words problems with combinations of numbers to five so that students can represent and solve word problems.

The teacher may provide five linking cubes of the same colors so that students can practice decomposing the number five and begin connecting decomposition to subtraction.

The teacher may provide several representations of the same quantity (equation, finger patterns, ten frames) so that students can connect multiple representations of the same quantities.

The teacher may provide a variety of addition *and* subtraction word problems within ten so that students can represent and solve word problems.

PERFORMANCE ASSESSMENT: The kindergarten teachers have hired you as a children’s book author to create a number book for the kindergarteners next year, similar to Ten Little Ladybugs by Laura Huliska-Beith. You will create a page in your book for each number from zero to ten showing either an addition or subtraction word problem with drawings.

This unit was authored by a team of Colorado educators. The unit is intended to support teachers, schools, and districts as they make their own local decisions around the best instructional plans and practices for all students. To see the entire instructional unit sample with possible learning experiences, resources, differentiation, and assessments visit <http://www.cde.state.co.us/standardsandinstruction/instructionalunitsamples>.