

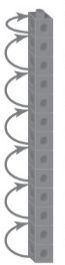

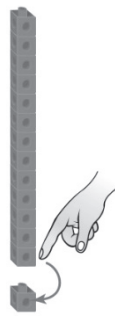




Master 29: Activity 11 Assessment

Decomposing to 20

Counting Behaviours/Strategies				
1. Student makes a train of linking cubes, but does not know that rearranging the cubes does not change the quantity (i.e., conservation of number).	2. Student counts cubes by 1s to determine how many in each part.  "1, 2, 3, ..., 10, 11, 12"	3. Student skip-counts to determine how many in each part, but continues to skip-count to count the leftover cubes.  "2, 4, 6, 8, 10, 12, 14"	4. Student fluently skip-counts by factors of 10 to determine how many in each part.  "2, 4, 6, 8, 10, 12, 13"	
Observations/Documentation				

Decomposing Behaviours/Strategies				
1. Student decomposes quantity into two parts, but breaks train randomly to find different ways.	2. Student finds many ways to decompose quantity into two parts, but does not consider zero.  "There aren't any more ways."	3. Student uses patterns to successfully find different ways to decompose quantity into two parts. 	4. Student uses known number relationships to successfully find all possible ways to decompose quantity into two parts. $\begin{array}{l} 0 + 12 = 12 \\ 1 + 11 = 12 \\ 2 + 10 = 12 \\ 3 + 9 = 12 \\ 4 + 8 = 12 \\ 5 + 7 = 12 \\ 6 + 6 = 12 \\ 7 + 5 = 12 \\ 8 + 4 = 12 \\ 9 + 3 = 12 \\ 10 + 2 = 12 \\ 11 + 1 = 12 \\ 12 + 0 = 12 \end{array}$	
Observations/Documentation				