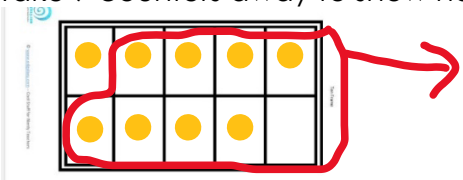
Numeracy – Decomposing Numbers

Curriculum:	**Learning Goals:**
Numeracy/Mathematics	-Student should demonstrate ways to decompose numbers (Extension: subtraction from 20) -Develop one to one correspondence between oral counting and concrete objects (e.g. by saying each number as you touch each object)

Materials
-Two 10-sided dice (No dice? No problem! Visit https://rolladie.net/ You will want to set it to 2 dice 10 sided.) -Two 10 frame strips OR two empty egg cartons (cut the last column off to create an egg carton 10 frame) -20 counters (20 of the same object e,g, 20 beads, or 20 Cheerios, or 20 lego)

Activities
-Mathematicians call the beginning number in a subtraction equation the *minuend*. Mathematicians call the subtracted number the *subtrahend*. Mathematicians call the answer to a subtraction equation the *difference*. -Fill your 10-frame or egg carton with the 10 counters. -Roll your 10-sided dice. -Take a look at this dice. What number is shown?  It landed on the number 9. -Can you take 9 away from your full 10-frame? How many counters will be left over? Take 9 counters away to show how many counters will remain.  -Refill your 10-frame. Roll one10-sided dice. What did you roll? Take that many counters off your 10-frame. How many counters are left over? -Can you create a subtraction equation from this? -Your goal is to subtract from 10. For example, if your beginning number (*minuend)*is 10 and you roll a 9 for the *subtrahend*, you take 9 counters off the full 10-frame. Matching subtraction equation: 10 - 9 = ___ How many counters are remaining? Or as a mathematician would say, what is the *difference*? 10 - 9 = **1** **Extension:** -Use two dice and two ten frames! Fill two 10-frames up. Roll two dice. Can you create a subtraction equation from this? -E.g. If you roll a 9 you will take 9 counters away. There are 9 empty spaces. How many counters are left over? 20 - 9 = **11**