

Numeracy – 10 Frames and Dice

Curriculum: Numeracy/Mathematics	Learning Goals: -Student should demonstrate ways to make 10 (Extension: addition to 20) -Develop one to one correspondence between oral counting and concrete objects (e.g. by saying each number as you touch each object)
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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)

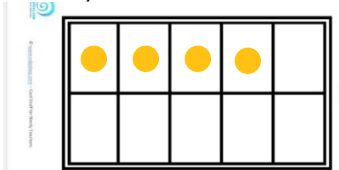
Activities

- Mathematicians call the numbers you add together in an addition equation the *addends*. Mathematicians call the answer to an addition equation the *sum*.
- Take a look at this dice. What number is shown?



This shows the number 4.

- Can you show the number 4 on a 10 frame (or egg carton 10 frame)? See below.



- Roll one 10-sided dice. Show this number in your 10-frame with your counters.
- How else can you show the number you roll? Can you show that number in a drawing? Can you make that number with your body? Can you find that number around the house (in books, on food items, on toys)?
- Can you create an addition equation from this?
- Your goal is to get to 10! For example, if you roll a four (*addend*) you will put four objects in your ten frame. Matching equation: $4 + \underline{\quad} = 10$ How many more objects do you need to get to 10 (*the sum*)? The six empty spaces represent this missing *addend*! $4 + \mathbf{6} = 10$

Extension:

- Use two dice and two ten frames! Roll both dice and fill the 10-frames with that number. Notice the empty spaces on the 10-frames. Can you create an addition question from this?
- E.g. If you roll a four you will put four objects in your ten frame. There are six empty spaces in your ten frame. $4 + \underline{\quad} = 20$
- How many more objects do you need to get to 20? The sixteen empty spaces represent this missing number! $4 + \mathbf{16} = 20$