**Level: K**

**Category: Numeracy**

**Title of Lesson: Getting to 10**

**Goals/Objectives:**

Big Idea: Number represents and describes quantity.

Curricular Content: number concepts to 10

Curricular Competencies: visualizing and representing number; communicating number

**Materials Needed:**

* Any objects around the house that can be counted—toys, beans, crackers, rocks.
* A deck of playing cards
* An egg carton with the last 2 compartments cut off to make a 10-frame

**Task Instructions: (Step by Step)**

Activity 1: Counting—count different collections of objects in the home. Engage children in counting up to 10…extend to 20 or higher.

Activity 2: 10 Frames

Level A: Sort out a set of cards, 1-10 (if using Ace, explain to child that Ace=1). Child draws a card, then places that many objects in a 10 frame to match.

Level B: Child draws a card, fills the 10 frame with that many objects (example: 6 red beads). Then child fills the 10 frame up with a contrasting object (in our example, 4 black beads). Child then finds the card representing 4, and says 6 and 4 makes 10.

Level C: Ten Frame Challenge

I have a horizontal ten-frame that has some counters on it. One row of the frame is full and one is not. What is the largest number I could make? What is the smallest number I could make? (Source: <https://www.openmiddle.com/>)

Activity 3: 5-Sum-Memory Game (Source: <https://mathforlove.com/>)

Materials: Playing cards

* Create a deck from 4 ones or aces, 4 twos, 4 three, and 4 fours.
* Deal out the cards face down.
* Players take turns turning two cards face up.
If a player turns a pair upward and that pair sums to 5, the player puts that pair of cards in their stash and plays again.
* If the upward pair does not sum to 5, the player turns the cards back face down, and the next player moves.
* The game ends when the cards are all claimed. Whoever has the most cards wins.

10-Sum-Memory Game (Source: https://mathforlove.com/)

* Materials: Playing cards
* As above but the deck consists of 2 ones or aces, 2 twos, 2 threes, 2 fours, 2 fives, 2 sixes, 2 sevens, 2 eights, and 2 nines, and the target sum is 10 instead of 5.

**Adaptations/Adjustments: (consider different environments)**

-Cut the egg carton down to 5 and start with counting and adding to 5

-Go outside, make a 10 frame of sticks or a cloth 10 frame (photo from Juliet Robertson), use objects found in nature to make 10’s or count

**Extensions (Optional):**

-Count two different collections of objects. Draw your collections on a piece of paper and label how many are in each collection.

-Extend activities to 20 and beyond.

References:

Fawn Nguyen

SD38-Janice Novakowski