**Level: Gr 2**

**Category: Numeracy**

**Title of Lesson: Addition and Subtraction to 20**

**Goals/Objectives:**

Big Idea:

• Addition and subtraction with numbers to 10 can be modelled concretely, pictorially, and symbolically to develop computational fluency.

Curricular Content:

• decomposing numbers to 20

• estimating sums and differences to 20

• using addition and subtraction in real-life contexts and problem-based situations

Curricular Competencies:

• Apply multiple strategies to solve problems

• Visualize to explore mathematical concepts

**Materials Needed:**

* Dice

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

**Activity 1: Problems with Addition and Subtraction**

You buy two things and spend a total of $9.

What could the more expensive item cost?

What could the less expensive item cost?

Can you think of a way to show this?

Which expression do you think does NOT belong?

3 + 3 7 – 1 5 + 2 4 + 2

Explain why.

Make up three problems you could solve by subtracting 4 from 9.

Explain why you would subtract.

Use a number line to show the problem.

**Activity 2: Fluency Practice: Getting to 20, 50 or 100**

Pick a target number (20, 50 or 100). Roll a single die, roll again and add, continue until you hit the target number (score a point) or go over (“bust”). Keep track of the points.

Example:

Target is 20

Roll 5: 5

Roll 2: 7

Roll 6: 13

Roll 4: 17

Roll 3: 20—you get a point

But if that last roll was a 4, you are at 21, so you BUST and no point.

Variations: Besides changing the target number, consider using 2 dice (so numbers added will be greater); or starting at the target number and getting to zero by using subtraction. Use the dice to represent digits, and add or subtract double digit numbers.

**Activity 3: Open Question**

Are there more ways to subtract to get 3 than ways to add to get three?
Explain your answers.

**Adaptations/Adjustments:**

-Look at the activities in the Kindergarten Week 2 Lessons

**Extensions (Optional):**

References:

Marian Small; https://www.hwdsb.on.ca/lincolnalexander/files/2018/02/Dice-Games-Lincoln-Alexander-1.pdf