

# Lesson Plan

## Addition - one digit - With Cube Models to 10

Second (2) - Math

### LEARNING TARGET

- Students will be able to fluently add numbers within 10 using cube models and addition sentences.
- Students will be able to demonstrate the ability to match cube models to an addition sentence.

### LEARNING PROGRESSION

#### PREREQUISITE SKILL

Understand addition - Addition with Cubes

#### EXTENSION SKILL

Addition - two digits - Adding With 10's

#### DURATION

- 45-55 minutes

#### MATERIALS

- Connecting cubes (at least 50)
- Container to hold connecting cubes
- Whiteboard and markers
- Addition worksheet pack
- Cube model worksheet

#### VOCABULARY

- Add
- Plus
- Sum
- Connecting cubes
- Commutative property
- Count
- Fluently

### INTRODUCTION

1. Begin the lesson by reminding students of the concept of addition and its symbol, the plus sign (+).
2. Explain to students that they will be learning how to fluently add numbers within 10 using cube models and addition sentences.
3. Display the connecting cubes and explain that they will be using these to help them add.

## INSTRUCTION

1. Demonstrate to the students how to use cube models to add numbers within 10. Start with two numbers, such as 2 and 3.
2. Show how to build a tower of 2 cubes and another tower of 3 cubes.
3. Then combine the two towers to create a tower of 5 cubes. Write the addition sentence  $2 + 3 = 5$  on the board.
4. Explain to students that they can use this method to add any two numbers within 10.
5. Provide additional examples and have students practice using cube models to add numbers within 10.

## GUIDED PRACTICE

1. Provide students with a cube model worksheet containing problems that use numbers within 10.
2. Work through the problems together as a class, demonstrating how to use cube models to add and match to an addition sentence.
3. Encourage students to write the addition sentences for each problem on their worksheet.

## INDEPENDENT PRACTICE

1. Provide students with another worksheet to complete independently.
2. Encourage students to use cube models and addition sentences to help them solve the problems.
3. Circulate around the room to provide individual support and guidance as needed.

## HOMEWORK

## EXIT TICKET

1. Provide each student with a whiteboard and marker.
2. Instruct students to write an addition sentence that uses cube models and matches to a cube model.

## SUMMATIVE

1. Ask students to match cube models to an addition sentence.
2. Use their responses to assess their understanding of the concepts and strategies covered in the lesson.

## CLOSING

1. Recap with the class what they learned in the lesson about fluently adding numbers within 10 using cube models and addition sentences.
2. Encourage students to reflect on how they can apply these strategies in future math lessons and in everyday situations.
3. Provide positive reinforcement to the class for their hard work and progress throughout the lesson.

## TEACHING TIPS

- Use real-life examples to help students see the practical applications of addition.
- Encourage students to work together and share their strategies for solving problems.
- Provide opportunities for students to practice adding numbers in different orders to reinforce the commutative property.

## MISCONCEPTIONS

- Thinking that adding numbers always results in a larger number.
- Misunderstanding the concept of regrouping when adding larger numbers.
- Assuming that the order of the numbers being added does not matter.

## EXTENSION

1. For students who have mastered adding numbers within 10, provide them with more challenging addition problems that involve regrouping or carrying.
2. Students can practice adding three or more numbers using cube models and addition sentences.
3. Students can create their own addition problems using cube models and exchange with a partner to match.

## INTERVENTION

1. For students who struggle with fine motor skills or have difficulty manipulating the connecting cubes provide them with larger or easier-to-grasp manipulatives.
2. For students who need extra support, provide them with additional practice problems and one-on-one guidance during independent practice.
3. For students who need additional reinforcement, provide them with visual aids, such as posters or anchor charts, that illustrate the use of cube models and addition sentences.

## COMMON CORE STANDARD

2.OA.B.2 - Fluently add and subtract within 20 using mental strategies.

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