

Lesson Plan

Addition up to 10 - Putting Numbers Together to 10 - Cube Models

Kindergarten (K) - Math

LEARNING TARGET

- Students will be able to connect connecting cubes to make sets up to 9.
- Students will be able to add two sets of connecting cubes together to make a total of up to 9.

LEARNING PROGRESSION

PREREQUISITE SKILL

No Prerequisite Skills

EXTENSION SKILL

No Extension Skills

DURATION

- Introduction (5 minutes)
- Instruction (15 minutes)
- Guided Practice (15 minutes)
- Independent Practice (15 minutes)
- Exit Card Formative Assessment (5 minutes)
- Closure (5 minutes)

MATERIALS

- Connecting cubes (at least 100)
- Container to hold the connecting cubes
- Whiteboard and markers
- Homework sheet

VOCABULARY

- Connecting cubes
- Set
- Count
- Add
- Plus
- Sum

INTRODUCTION

1. Show students a few connecting cubes and ask them to name the colors.
2. Explain that they will use connecting cubes to add numbers together and find the total.

INSTRUCTION

1. Show students how to add two sets together by connecting them and counting the total number of cubes.

GUIDED PRACTICE

1. Divide students into small groups and provide each group with a container of connecting cubes.
2. Instruct students to work together to create sets of up to 9 and add two sets together to make a total of up to 9.
3. Circulate around the room to provide support and guidance as needed.

INDEPENDENT PRACTICE

1. Instruct students to work independently to create their own sets of connecting cubes and add them together to make a total of up to 9.
2. Monitor students' progress and provide support as needed.

HOMEWORK

1. Provide students with a homework sheet to practice creating sets and adding them together at home.
2. Encourage students to discuss their challenges and understanding with their parents.

EXIT TICKET

1. Provide each student with a whiteboard and marker.
2. Instruct students to write a number sentence that represents adding two sets of connecting cubes together to make a total of up to 9.

SUMMATIVE

1. Formative assessments will be conducted during the lesson to monitor students' understanding of connecting cubes and their ability to add sets.
2. The exit ticket and progress monitoring assessments will be used to determine students' mastery of adding sets of connecting cubes to find the sum.

CLOSING

1. Review the concept of addition and how connecting cubes can help students understand and solve addition problems.
2. Ask students to share one thing they learned during the lesson.

TEACHING TIPS

- Use real-life examples and scenarios to help students understand the relevance of addition in their everyday lives.
- Encourage students to verbalize their thought process as they connect cubes and solve addition problems.
- Provide praise and positive reinforcement as students make progress, fostering confidence in their math abilities.

MISCONCEPTIONS

- Students may think that the order of numbers in an addition problem matters (e.g., $3+4$ is different from $4+3$).
- Students may confuse addition with other operations, such as subtraction, especially if they have recently learned about multiple operations.
- Some students may believe that larger numbers should always be added first, leading to difficulties when working with smaller numbers.

EXTENSION

1. Students can practice adding larger numbers, such as up to 20, using connecting cubes.
2. Students can practice subtraction using connecting cubes.
3. Students can create and solve word problems involving addition with connecting cubes.

INTERVENTION

1. For students who struggle with fine motor skills, larger and easier to grasp cubes can be used.
2. For students who need extra support, a visual aid or diagram can be provided
3. to help them understand the concept of addition. 3. Pair students who need additional support with a peer or teaching assistant for guided practice.
4. Provide additional practice opportunities with connecting cubes and targeted instruction for students who continue to struggle with the concept of addition.

COMMON CORE STANDARD

K.OA.A.1 Part 1 - Represent addition with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.

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