

# Lesson Plan

## Counting up to 10 - Count to 10 with Cubes

Kindergarten (K) - Math

### LEARNING TARGET

- Students will be able to identify the numbers 1 through 10.
- Students will be able to count connecting cube models up to 10 by ones.
- Students will be able to answer questions about connecting cube models.
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### 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 in various colors (at least 100)
- Container to hold the connecting cubes
- Whiteboard and markers
- Counting to 10 worksheet

#### VOCABULARY

- Connecting cubes
- Count
- Model
- Number
- Question

### INTRODUCTION

1. Show students a model of connecting cubes and ask them to identify the colors and count the cubes.
2. Explain that today, they will be learning to count to 10 using connecting cube models.

### INSTRUCTION

1. Write the numbers 1 through 10 on the whiteboard and have students repeat the numbers after you.
2. Demonstrate how to create a connecting cube model for each number from 1 to 10.
3. Show students how to count the cubes in each model by ones and have them practice counting along with you.

## **GUIDED PRACTICE**

1. Divide students into small groups and provide each group with a container of connecting cubes.
2. Instruct the groups to create their own connecting cube models for numbers 1 through 10 and count the cubes in each model.
3. Circulate around the room to provide support and guidance as needed.

## **INDEPENDENT PRACTICE**

1. Provide each student with a counting to 10 worksheet that features connecting cube models.
2. Instruct students to work independently to count the cubes in each model and write the correct number next to each model.
3. Monitor students' progress and provide support as needed.

## **HOMEWORK**

1. Assign students to practice counting connecting cube models up to 10 at home and discuss their understanding with parents.

## **EXIT TICKET**

1. Provide each student with a whiteboard and marker.
2. Show students a connecting cube model and instruct them to write the number that represents the total number of cubes in the model.

## **SUMMATIVE**

1. Formative assessments will be conducted during the lesson to monitor students' understanding of counting connecting cube models and their ability to count to 10.
2. The exit ticket and progress monitoring assessments will be used to determine students' mastery of counting to 10 using connecting cube models.

## **CLOSING**

1. Review the importance of counting and understanding numbers up to 10.
2. Ask students to share their favorite connecting cube model from the lesson.
3. Encourage students to practice counting by connecting cube models or counting objects at home.

## **TEACHING TIPS**

- Use a variety of connecting cube colors to maintain student engagement and create visually appealing models.
- Incorporate counting songs or chants to help students remember the sequence of numbers.
- Encourage students to share their connecting cube models with the class to promote peer learning and interaction.

## **MISCONCEPTIONS**

- Students may confuse counting by ones with counting the total number of cubes in a model (e.g., counting each cube as "one").
- Students may struggle to understand that each cube represents a single number and may skip or repeat numbers while counting.
- Students may have difficulty recognizing the numbers 1 through 10 when written and might need additional support or practice with number recognition.

## **EXTENSION**

1. Students can practice counting beyond 10 using connecting cube models.
2. Students can explore patterns and sequences using connecting cube models.
3. Using connecting cube models, students can practice counting by twos, fives, and tens.

## **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 number line or visual aid can be provided to help them understand the concept of counting to 10.
3. Provide one-on-one or small group instruction for students who need additional support in counting connecting cube models or understanding numbers up to 10.

## **COMMON CORE STANDARD**

K.CC.B.5 - Count to answer "how many?" questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1-20, count out that many objects.

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