

# Lesson Plan

## Subtraction up to 10 - Word Problems With Pictures to 10

Kindergarten (K) - Math

### LEARNING TARGET

- Students will be able to identify subtraction word problems.
- Students will be able to solve subtraction word problems to 10 using manipulatives and number sentences.
- Students will be able to explain their thinking and strategies used to solve subtraction word problems.

### 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

- Manipulatives such as counting bears or cubes
- Whiteboard and markers
- Subtraction word problem cards
- Lesson Worksheet Pack

#### VOCABULARY

- Subtraction
- Difference
- Minus
- Take away
- Left
- Equals

### INTRODUCTION

1. Display a subtraction word problem card, such as "Farmer Williamson has 8 pineapples to sell at the market. 3 pineapples sell. How many pineapples are left?  $8 - 3 =$ "
2. Ask students if they know what a subtraction word problem is.
3. Explain that a subtraction word problem is a story problem where something is taken away or removed.
4. Explain that we can use manipulatives and number sentences to solve subtraction word problems.

## **INSTRUCTION**

1. Model how to solve a subtraction word problem using manipulatives and a number sentence.
2. Choose a subtraction word problem card and use manipulatives to act out the problem.
3. Write a number sentence to represent the problem and solve it together.
4. Explain the strategy used to solve the problem, such as counting backwards or taking away.

## **GUIDED PRACTICE**

1. Divide the students into small groups and provide each group with a subtraction word problem card and manipulatives.
2. Instruct the students to work together to solve the problem using manipulatives and a number sentence.
3. Circulate around the room to provide support and guidance as needed.

## **INDEPENDENT PRACTICE**

1. Instruct students to work independently to solve subtraction word problems using manipulatives and number sentences.
2. Monitor students' progress and provide support as needed.

## **HOMEWORK**

1. Provide each student with a worksheet pack containing subtraction word problems to solve using manipulatives and number sentences.
2. Instruct students to complete at least 3 word problems and show their work using manipulatives and number sentences.
3. Encourage students to ask for help or clarification if needed.
4. Optional: Students can create their own subtraction word problem and solve it using manipulatives and a number sentence.

Note: Homework should be optional and not graded. It is important to provide a balance between schoolwork and home life, and to ensure that students have enough time to rest and engage in other activities. Encourage parents to support their child's learning by asking them to review their child's work and provide positive feedback.

## **EXIT TICKET**

1. Provide each student with a whiteboard and marker.
2. Instruct students to write a number sentence that represents a subtraction word problem using manipulatives.

## **SUMMATIVE**

1. Provide each student with a subtraction word problem card and instruct them to solve it using manipulatives and a number sentence.
2. Observe students' progress and assess their ability to solve subtraction word problems.

## **CLOSING**

1. Ask students to share one strategy they used to solve a subtraction word problem.
2. Review the importance of being able to solve subtraction word problems in real-life situations.
3. Encourage students to continue practicing solving subtraction word problems using manipulatives and number sentences.

## **TEACHING TIPS**

1. Use visual aids and manipulatives to help students understand subtraction concepts.
2. Encourage students to explain their thinking and strategies for solving problems.
3. Provide opportunities for students to work collaboratively and share their problem-solving methods with each other.

## **MISCONCEPTIONS**

1. Students may have difficulty understanding the concept of taking away or removing something.
2. Students may struggle with representing subtraction problems using number sentences.
3. Students may have difficulty counting backwards or subtracting mentally, especially when dealing with larger numbers.

## **EXTENSION**

1. Students can solve subtraction word problems to 20 or higher using manipulatives and number sentences.
2. Students can create their own subtraction word problems and share them with the class.

## **INTERVENTION**

1. For students who struggle with manipulatives, alternative materials such as pictures or drawings can be used.
2. For students who need extra support, a visual aid or diagram can be provided to help them understand the concept of subtraction.

## **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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