

Lesson Plan: Fractions

Grade: Year 4

Subject: Mathematics

Topic: Fractions

Objectives:

1. Students will understand the concept of fractions.
2. Students will learn to identify parts of a whole using fractions.
3. Students will practice comparing and ordering fractions.

Materials Needed:

1. Fraction manipulatives (e.g., fraction circles, fraction bars)
2. Drawing paper and crayons/markers
3. Worksheets or activity sheets on fractions
4. Whiteboard and markers

Lesson Duration: 45 minutes

Procedure:

Introduction (10 minutes):

1. Start the lesson by reviewing what students know about parts of a whole. Discuss examples such as sharing a pizza or dividing a cake.

2. Introduce the concept of fractions to represent parts of a whole. Explain that fractions have a numerator (top number) and a denominator (bottom number).
3. Provide simple examples to illustrate fractions (e.g., $1/2$, $1/3$) using visual aids like fraction circles or bars.

Activity - Exploring Fraction Manipulatives (15 minutes):

1. Distribute fraction manipulatives (fraction circles or bars) to students.
2. Demonstrate how to use these manipulatives to represent different fractions (e.g., show $1/2$ with a fraction circle divided into two equal parts).
3. Ask students to explore and create fractions using the manipulatives on their own or in pairs.

Activity - Drawing and Colouring Fractions (10 minutes):

1. Distribute drawing paper and crayons/markers to each student.
2. Assign fractions for students to draw and colour (e.g., draw a rectangle and colour $1/4$ of it red).
3. Encourage students to label the fractions they draw.

Discussion - Comparing and Ordering Fractions (5 minutes):

1. Write down several fractions on the whiteboard (e.g., $1/2$, $1/3$, $1/4$).

2. Discuss with students how to compare fractions by looking at the numerator and denominator.
3. Guide students in ordering the fractions from smallest to largest.

Conclusion (5 minutes):

1. Summarize the main points of the lesson: understanding fractions as parts of a whole, representing fractions visually, and comparing/ordering fractions.
2. Reinforce the idea that fractions are used in everyday life for sharing, measuring, and comparing quantities.

Homework (Optional):

1. Assign a worksheet or activity where students practice identifying and writing fractions for different objects or scenarios.

Assessment:

1. Assess students based on their participation in activities involving fraction manipulatives and their ability to correctly identify and compare fractions.
2. Review students' drawings and worksheets to evaluate their understanding of representing fractions visually.

Note to Teachers:

- Adjust the complexity of fraction examples based on students' readiness and prior knowledge.
- Encourage students to explain their reasoning when comparing fractions to deepen their understanding.

This lesson plan aims to engage students in hands-on activities and visual representations to develop a foundational understanding of fractions, preparing them for more complex fraction concepts in future grades.

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