PLANIT TEACHERS
Teacher Preparation Lesson Plan: Creating and Comparing Simple Fractions with Everyday Objects

Subject Area: Mathematics
Unit Title: Fractions
Grade Level: 3-4
Lesson Number: 1 of 10

Duration: 60 minutes
Date: March 10, 2024
Teacher: Ms. Johnson
Room: Room 101

Curriculum Standards Alignment

Content Standards:

- Understand the concept of fractions as part of a whole
- Identify and create fractions using everyday objects
- Compare simple fractions

Skills Standards:

- Use critical thinking to solve problems
- Communicate mathematical ideas effectively
- Apply mathematical concepts to real-world scenarios

Cross-Curricular Links:

- Science: measurement and data
- Language Arts: reading and writing about fractions

Essential Questions & Big Ideas

Essential Questions:

- What is a fraction and how is it used in real-life scenarios?
- How can fractions be created and compared using everyday objects?

Enduring Understandings:

- Fractions are a way to show part of a whole
- Fractions can be used to compare and order parts of a whole

Student Context Analysis

Class Profile:

- Total Students: 25
- ELL Students: 5
- IEP/504 Plans: 3
- Gifted: 2

Learning Styles Distribution:

- Visual: 40%
- Auditory: 30%
- Kinesthetic: 30%

What is a Fraction?

A fraction is a way to show part of a whole. It consists of two parts: the numerator (the top number) and the denominator (the bottom number). The numerator tells us how many parts we have, and the denominator tells us how many parts the whole is divided into.

Examples of Fractions:

- 1/2 (one half)
- 1/4 (one quarter)
- 3/4 (three quarters)

Creating Fractions

To create a fraction, you need to divide a whole into parts. For example, if you have a pizza that is cut into 8 slices, and you eat 2 of them, you can represent the part you've eaten as 2/8.

Activity: Create Your Own Fraction

Provide students with paper plates, scissors, and markers to create their own fraction models. Have them work in pairs to create and identify fractions.

How to Create Fractions

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How to Compare Fractions

To compare fractions, you need to consider both the numerator and the denominator. For example, to compare 1/4 and 1/2, you need to convert both fractions to equivalent fractions with the same denominator.

Activity: Compare Fractions

Provide students with fraction cards to compare and order fractions. Have them work in pairs to compare and order fractions.

Examples of Comparing Fractions

Examples of Comparing Fractions:

- 1/4 vs. 1/2
- 3/4 vs. 2/4

Measuring Ingredients

Fractions are used in real-world applications, such as measuring ingredients for a recipe. For example, a recipe may require 1/4 cup of sugar.

Activity: Measure Ingredients

Provide students with a recipe that requires the use of fractions and have them work in groups to measure ingredients and prepare the dish.

Examples of Real-World Applications

Examples of Real-World Applications:

- Measuring ingredients for a recipe
- Dividing a room into parts for decoration

Formative Assessment

Use quizzes, class discussions, and observations to assess students' understanding of the concept.

Summative Assessment

Use a final project or presentation to evaluate students' ability to apply fractions to real-world scenarios.

Conclusion

In conclusion, creating and comparing simple fractions with everyday objects is a fun and interactive way to introduce students to the concept of fractions. By using real-life examples, hands-on activities, and visual aids, teachers can create a comprehensive and engaging lesson plan that meets the needs of all students.

Appendix

Glossary:

- Fraction: a way to show part of a whole
- Numerator: the top number in a fraction
- Denominator: the bottom number in a fraction

Worksheets:

- Creating Fractions Worksheet
- Comparing Fractions Worksheet

Answer Key:

- Creating Fractions Answer Key
- Comparing Fractions Answer Key