Eating Fractions

Summary

Students will develop an understanding of partitioning and fractions by sharing paper candy bars and cookies with friends.

Main Core Tie

Mathematics Grade 2

Strand: GEOMETRY (2.G) Standard 2.G.3

Time Frame

1 class periods of 70 minutes each

Group Size

Pairs

Materials

Materials

- paper and pencils
- paper cutouts of different size rectangles and circles
- paper copies of candy bars and cookies
- fraction maniuplatives (ie: fraction bars or fraction circles
- rulers, crayons or colored pencils, glue

Background for Teachers

Background Knowledge:

- understanding of partitioning
- procedure for using manipulatives
- understanding that equal shares of an identical whole are not necessarily the same shape
- understand fractional parts, three one-third pieces equal one whole

Student Prior Knowledge

Prior Knowledge:

- recognize halves, thirds and fourths
- understand equal shares
- understand that shapes can be divided into equal shares
- describe the whole as two, three, or four shares
- can draw circle/rectangles to show equal shares

Intended Learning Outcomes

ILO:

- students will understand vocabulary of equal parts and partitioning
- students will understand that two halves equal one whole, etc.
- students will understand that equal shares of identical wholes are not necessarily the same shape
- students will persevere in problem solving MP1
- Students will reason abstractly and quantitatively MP 2

Students will look for and make use of structure MP7

Instructional Procedures

Using paper cutouts of different sized rectangles and circles, students will solve a task by sharing these candy bars and cookies with friends.

Strategies for Diverse Learners

Strategies:

use of manipulatives (ie: fraction bars or circles) to solve problem

Extensions

Extensions:

challenge students to look for other ways to partition the shape
next day complete yes/no graph

Rubrics

Eating Fractions

Authors

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