

Subject Area: Mathematics
Unit Title: Solving Simple Word Problems with Visual Aids and Games
Grade Level: 2nd Grade
Lesson Number: 1 of 10

Duration: 60 minutes
Date: March 12, 2023
Teacher: Ms. Johnson
Room: Room 101

Curriculum Standards Alignment

Content Standards:

- CCSS.Math.Content.2.OA.A.1
- CCSS.Math.Content.2.OA.B.2

Skills Standards:

- Problem-solving
- Critical thinking

Cross-Curricular Links:

- Language Arts
- Science

Essential Questions & Big Ideas

Essential Questions:

- What are simple word problems?
- How can visual aids be used to solve simple word problems?

Enduring Understandings:

- Simple word problems can be solved using visual aids.
- Visual aids can help students develop problem-solving skills and critical thinking.

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%

Introduction to Visual Aids

Types of Visual Aids:

- Blocks
- Counting bears
- Number lines

Using Visual Aids to Solve Simple Word Problems:

- Using blocks to solve an addition problem: "Tom has 5 pencils, and his friend gives him 2 more. How many pencils does Tom have now?"
- Using counting bears to solve a subtraction problem: "Sarah has 8 crayons, and she gives 2 to her brother. How many crayons does Sarah have left?"
- Using a number line to solve a multiplication problem: "A bookshelf has 3 rows of books, and each row has 4 books. How many books are on the bookshelf?"

Word Problem Types

Addition Word Problems:

- "Tom has 5 pencils, and his friend gives him 2 more. How many pencils does Tom have now?"
- "Sarah has 3 toys, and her mom gives her 2 more. How many toys does Sarah have now?"

Subtraction Word Problems:

- "Sarah has 8 crayons, and she gives 2 to her brother. How many crayons does Sarah have left?"
- "Tom has 10 pencils, and he gives 3 to his sister. How many pencils does Tom have left?"

Game-Based Learning

Math Bingo:

- Create bingo cards with simple word problems
- Call out the answers to the word problems
- Mark the answers on the bingo cards
- The first person to get five in a row wins

Simple Word Problem Scavenger Hunt:

- Create a list of simple word problems
- Hide the word problems around the classroom or school
- Give each student a copy of the word problems
- The first person to find and solve all the word problems wins

Real-World Applications

Shopping:

- "If a toy costs \$5 and a book costs \$3, how much will it cost to buy both?"
- "If a shirt costs \$10 and a discount of 10% is applied, how much will the shirt cost?"

Cooking:

- "If a recipe requires 2 cups of flour and you only have 1 cup, how much more flour do you need?"
- "If a recipe requires cooking for 30 minutes and you want to cook it for 20 minutes, how much time will you save?"

Conclusion

Summary:

In this lesson, we learned about the importance of visual aids in solving simple word problems. We explored the different types of word problems, including addition, subtraction, multiplication, and division. We also learned about game-based learning and real-world applications of simple word problems.

Reflection:

- What did you find most challenging?
- What did you enjoy most?
- What do you think you need to practice more?