Using the LAP strategy to Teach Addition and Subtraction of Fractions.

Lesson I

Objective: To teach students to solve addition and subtraction problems involving fractions.

Setting and Materials:

Settings: Special Education Resource Classroom

Materials:
- Notecards of Fractions
- Notecards with the letters L, A, P on them.
- Notecards for Zap game (16 cards, 5 with the letter L, 5 with the letter A, 5 with the letter P, and one that says Zap)
- Paper
- Pencil
- Dice

Content Taught

Teach students to use a mnemonic strategy to add and subtract fractions.

Teaching Procedures

1. **Pair students by ability level for this lesson.**
2. **Introduce the strategy to students in a whole group setting.**
3. **Provide each pair of students with an index card with the mnemonic strategy listed on it.**
   - a) (L) Look at the denominator and sign.
   - b) (A) Ask yourself a question “Will the smallest denominator divide into the largest denominator an even number of times?”
   - c) (P) Pick your fraction type.
4. **Use guided practice and read aloud the steps with the students.**
5. **Tell students to read aloud the steps individually in their pairs.**
6. **Each pair of students works together to practice each letter of the LAP mnemonic. They can play either LAP Fraction Baseball or Zap.**
   - a) LAP Fraction Baseball
     1) Students pick up a card from their stack that have a letter printed on it (L, A, or P)
     2) Based on the letter on their card, they state the meaning.
3) If they answer correctly, the student rolls a dice. If they roll a 1 or 2 they get a single, 3 or a 4 a double, 5 triple, and 6 they are out.
4) If they answer incorrectly, the student is given an out.
5) Students play until they get three outs.
6) The payer with the most runs at the end of the game wins.

b) Zap
1) Zap cards are used for this game (16 cards: 5 with the letter L, 5 with the Letter A, 5 with the letter P, and 1 with Zap on it)
2) Shuffle the cards and place them in the middle of the table.
3) Set a timer for 30 minutes.
4) Students take turns drawing cards from the stack.
5) Students tell what the letter on the card they choose stands for.
6) If they answer correctly they get to keep the card.
7) If they answer incorrectly they put the card back.
8) If they draw the Zap card, they have to put all of their cards back.
9) When the timer sounds the student with the most cards wins.

7. Check to see if each pair of students can state the LAP Fractions strategy correctly.
8. Give each pair students’ flash cards with fractions on them.
9. Each pair practices together using the LAP strategy to identify the denominator of the fractions on the flashcards.
10. The pairs practice this for 30 minutes.
11. At the end of the 30 minutes, pull each student individually and give them an 8 item LAP Fractions Strategy Test.
12. Give each student the test until they reach 100% mastery.

Evaluation

An 8 item LAP Fractions strategy test

Lesson Plan Based on:


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