

Notes/Reflections:

Embodying Mathematics • Problem Solving • Addition •



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In this lesson we will enable students to complete math problems with groups to reinforce the concept of completing addition using regrouping.

Essential Question: How can we use theatrical techniques to assist with mathematics comprehension?

Process

Side by Side

- Tell the class that there is a deck of cards. On each card is either a math problem or an answer.
- Divide the class into two groups. Pass out problem cards to one of the groups, and answer cards to the other. Tell them they are not allowed to show the card to anyone until they hear, "Go!"
- Tell students to hold their cards out in front of them when they hear, "Go!" Do not talk! See who is holding a matching card. When they find their partner, stand right next to them, side by side.
- Now everyone look around. Has everyone matched a problem with the correct solution?
- Now switch groups. Distribute a different set of problems to the students and repeat the process.

Scramble Unscramble

- At the conclusion of Side by Side, ask students to remain with their partner.
- Give each group of two students three cards with equations written on them.
- Ask the students to solve the problems and put them in the correct order based on the solutions.
- Finally, ask each group to explain how they solved their problems.

Materials

- Deck of cards with math problems and answers
- Cards with equations

Vocabulary

Fact Family

A group of numbers that are related to each other in that those numbers can be combined to create a number of equations.

Classroom Tips

The nature of this lesson will change based on how much the students have learned about fact families. If this is an introduction, then it can be broken into two parts with one teaching the game and another doing the game with the equations.

Assessment

- Teachers should observe students, watching for involvement, engagement, and effort.
- Students should accurately solve mathematical problems.
- Students should verbalize the problem solving steps used to solve their equations.

Common Core Georgia Performance Standards

MATHEMATICS

GRADE 2

MCC2.OA.2: Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers.
MCC2.NBT.5: Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.
MCC2.NBT.7: Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.
MCC2.NBT.9: Explain why addition and subtraction strategies work, using place value and the properties of operations.

THEATRE

GRADE 2

TAES2.7: Integrating various art forms, other content areas, and life experiences, to create theatre

National Standards

THEATRE ARTS

Standard 2: Acting by assuming roles and interacting in improvisations

Standard 5: Researching by finding information to support classroom dramatizations