

Math Lesson

Lesson Title: Introducing Addition & Subtraction

Grade: First Grade

Content Standard: Add and subtract within 20. 5. Relate counting to addition and subtraction (e.g., by counting on 2 to add 2). 6. Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as counting on; making ten (e.g., $8 + 6 = 8 + 2 + 4 = 10 + 4 = 14$); decomposing a number leading to a ten (e.g., $13 - 4 = 13 - 3 - 1 = 10 - 1 = 9$); using the relationship between addition and subtraction (e.g., knowing that $8 + 4 = 12$, one knows $12 - 8 = 4$); and creating equivalent but easier or known sums (e.g., adding $6 + 7$ by creating the known equivalent $6 + 6 + 1 = 12 + 1 = 13$). Work with addition and subtraction equations. 7. Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false. For example, which of the following equations are true and which are false? $6 = 6$, $7 = 8 - 1$, $5 + 2 = 2 + 5$, $4 + 1 = 5 + 2$.

Materials: collections of counters 20 and under in baggies or containers, recording sheets (could be big paper one for each group), pencils, crayons,

Shared Experience and procedure details:

1. Students in pairs or threes will be given a collection of counters and big paper .
2. "Use your collection of counters to find as many ways as you can to make your number. Your number is the number of counters in your bag."
3. Students will count their counters and write or draw different ways to get to their number.
4. Teacher will monitor and question student thinking and ideas. (How do you know? Can you show me another way? Show me? Tell me what you are thinking.)

Possible Picture: "Use pictures and words to show your thinking about what you just did with your friends and counters."

1. Pictures of two groups or three groups of objects.
2. Pictures of total amounts.
3. Pictures of them with friends around their tables.
4. Pictures of big paper with numbers, symbols and pictures.

Possible People Talk: Groups will share their big papers talking about the different ways they made. As they talk about their activity in the group, teacher will write the ideas down so that the children's words can be used to glean feature talk.

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Feature Talk:
Possible Symbolic Representation:
Written By: GROUP A First Grade Team Date: September 23, 2015

put together, take apart, add, count, all together, sum, equals, group, fact, big numbers, small numbers, more, less, order, flip facts, turn around facts, adding zero, number sentence, equation

actual number sentences, incorrect number sentences, pictures of how they separated their groups, some plus, minus & equal symbols