



Kindergarten Unit 5

Investigating Addition and Subtraction

Volume 5 Issue 1

References

Helpful Links:

Links for Parents to build background knowledge:

<http://www.education.com/games/math/kindergarten/>

<http://www.abcya.com/addition.htm>

<http://www.turtlediary.com/kindergarten-games/math-games/learn-to-add.html>

Dear Parents

Welcome to the new school year! We are eager to work with you and your students as we learn new mathematical concepts. The State of Georgia is using Mathematics Georgia Standards of Excellence (MGSE) that call for students to be actively engaged in the learning process. During this student's learning focus will be counting and comparing numbers.

Concepts Students will Use and Understand

- Represent the combining of two sets within 5
- Represent the separating of a set into two sets within 5
- Model addition and subtraction problem situations using various representations
- Represent number combinations up to 5
- Solve Word Problems within 5
- Decomposing and composing Numbers within 5
- Count to 100 by ones and tens
- Identify and compare two numbers on whether they are greater than, less than, or equal

Vocabulary

- **Combine:** put sets together, join sets, add
- **Separate:** take away, remove, subtract
- **Quantity:** the amount of objects
- **Decompose:** to break down
- **Compare:** to examine the value of numbers or objects

Georgia Math Grade K
Textbook Connection:
Ch. 4, Lessons 1-2
Ch. 5, Lesson 1-5
Ch. 6, Lessons 1-6

Textbook Online:

connected.mcgraw-hill.com

Ask your teacher for the online passcode

Example 1

1. Combine the two sets below. Tell how many buttons are in the new set.



Case Closed - Evidence:



There were 2 buttons in one set and 3 in the other set. There are five in the new set.

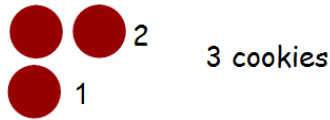
Example 2



Combine two sets with different household items. Reinforce symbols and definitions.

Example 3

Amy has 2 cookies. She got 1 more cookie. How many cookies does she have altogether?



Design different story problems. Have student's model using manipulatives. Combinations should be within 5.

Example 4

Tom had 5 apples. He ate 2. How many apples does Tom have left?



Design different story problems. Have student's model using manipulatives. Combinations should be within 5.

Home Activities

- Gather 5 pennies and ask your child to separate them into two sets. Help them understand the combinations.
- Suggest subtraction problems to your child and allow them to model the problem with objects.
- Have your child count items around the house by ones and then group them into groups of 10 and count by 10: buttons, , coins, straws, crayons, pencils
- Students may use observation to compare two quantities (e.g., by looking at two sets of objects, they may be able to tell which set has more or less without counting).
- Compose and decompose 5 objects in different ways, e.g. Mom has a vase of 5 flowers. The flowers are red and purple. How many different combinations of red and purple flowers can there be? Draw a picture of all your ideas.
- Tell students story problems and have them represent addition and subtraction with objects (such as beans, buttons) or by drawing. An example of a story problem might be – My dog has 3 bones. My uncle gives him 2 more.