

Differentiated Learning

Grade Level: 2nd grade

Topic: 3

Domain Covered:

Operations and Algebraic Thinking

Clusters: (write out in words)

Represent and solve problems involving addition and subtraction

Content Standards: (write out in words)

2.OA.1 Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

2.OA.2 Fluently add and subtract within 20 using mental strategies. By the end of Grade 2, know from memory all sums all sums of two one-digit numbers.

Learning Targets for this Unit

***Found in teacher's manual under objectives for each topic lesson**

- Subtract 0,1, and 2 from a number by applying the concepts of 0-less than, 1-less than, 2- less than a number.
- Find differences by using related addition facts to 18.
- use addition doubles facts to subtract.
- find differences by using related addition facts to 10.
- Solve two-question problems by using the answer to the first question to answer the second question.

Practice Standards: (Delete the practices that will NOT be used)

- **Make sense of problems and persevere in solving them.**
- **Reason abstractly and quantitatively.**
- **Construct viable arguments and critique the reasoning of others.**
- **Model with mathematics.**
- **Use appropriate tools strategically.**
- **Attend to precision.**

Differentiated Activities

Directions: Use your Teacher Manual for your assigned Topic to complete this page and create student materials

Advanced/Gifted:

pg. -----

Quick Synopsis of Activity & Materials Needed-

Math Project

pg. -----

Quick Synopsis of Activity & Materials Needed-

Math and Literature:

pg. -----

Quick Synopsis of Activity & Materials Needed-

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Advanced/Gifted:

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Quick Synopsis of Activity & Materials Needed–

- Children who are easily able to identify number patterns can be further challenged by being given the opportunity to work with patterns and relationships in different forms.
- Encourage children to notice how they use addition, subtraction, and missing numbers to complete a 3 by 3 magic square

Math Project

pg. 70

Quick Synopsis of Activity & Materials Needed–

- Make a list of animals. Research interesting facts about 1 animal. Then have the student make a double addition story and a corresponding subtraction story about the animal they chose. Publish the stories in a class book.

Materials Needed:

- Computers
- Student recording sheets (provided)
- Student class book pages (provided)
- Class book cover (provided)
- Crayons, Markers, Colored Pencils

Math and Literature:

pg. 69D

Missing Mittens, Stuart J Murphy

Quick Synopsis of Activity & Materials Needed–

Summary

Where are the missing mittens? That's the big mystery for Farmer Bill to solve. He only has 1 mitten. The cow only has 3 mittens, and there are only 5 mittens for the 3 chickens. What are they to do? Then Farmer Bill spies the goat chewing. The mystery is solved! Everyone gets the mittens they need.

Reading the Story

This is a fantasy story.

Read the story.

What is happening in each illustration?

Make a prediction about what happened to the mittens.

Where your predictions correct?

Count the number of mittens in each illustration and tell whether these numbers are even or odd.

Subtract to find how many mittens are missing.

Missing Mittens Do–PG 6 Math Library Master

Additional Problem

Farmer Bill needs 14 mittens for the animals. He has 6 mittens. How many more mittens does he need?

Doubles Animal Research

Name _____ # _____

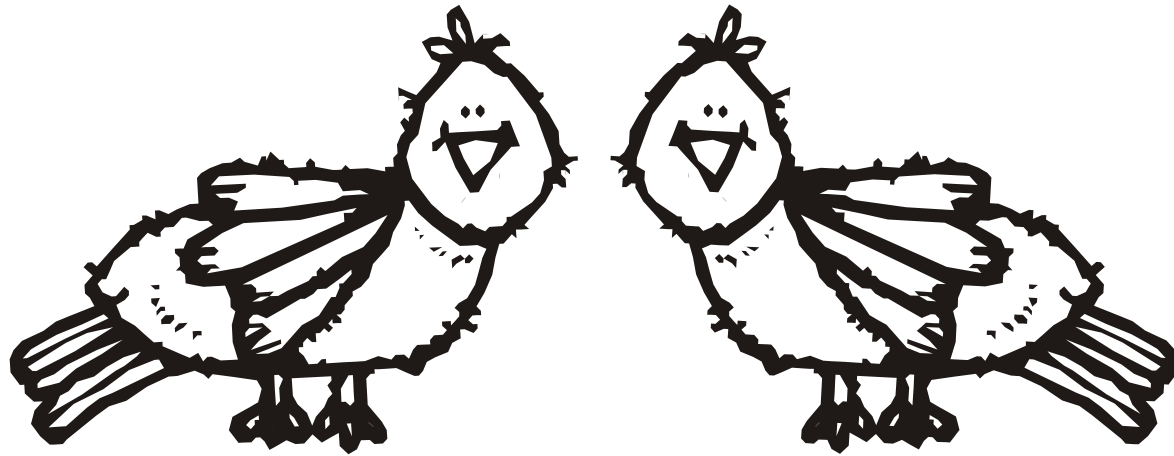
List of animals:



The animal I chose is _____

Facts about this animal:

Doubled Animal Stories



Second Grade



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$
