Math&Movement

Common Core State Standards Lesson Plans

1st Grade

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National Math Foundation
Learning Through Movement

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1.OA

Operations and Algebraic Thinking

Math & Movement Lesson Plan

Grade/Subject: 1st Grade/Math

Lesson Topic: Operations and Algebraic Thinking – Word Problems: Addition and Subtraction within 20

I. Objectives
- The learner will use Math&Movememt skip counting mats to answer word problems while fluently adding and subtracting within 20.

II. Common Core Learning Standard
1.OA.1 – Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart and comparing by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.

III. Background Information/Vocabulary
- The learner should know the value of numbers within 20.
- The learner should understand the basic concepts of addition and subtraction.

IV. Instructional Procedures/Activities (55 minutes)
A. Introduction/Motivational (5 minutes)
The teacher will call for the attention of the students and ask them to sit quietly. The teacher will tell the class that she is going to read them a story. The teacher will read the class *What's New at the Zoo* by Suzanne Slade. While reading the book, the teacher will encourage the students to count all of the animals in the pictures to help them solve the word problems. When the story is over, the teacher will ask a student to tell the class how addition was used in the story. The teacher will tell the class that today they are going to learn how to add and subtract math questions that come from word problems, just like they did while reading the story.

Instruction (40 minutes)
- The teacher will have the Math&Movement Count by 2's mat spread out on the classroom floor.
- The teacher will direct the class to stand around the mat.
- The teacher will tell the class that they can use the Count by 2's mat to add and subtract.
- The teacher will model by writing the equation 3 + 2 = _____ on a small whiteboard.
- The teacher will ask the class, "Where should I start on the mat?"
- The teacher will select a student to say, "On the 3!"
- The teacher will then ask, "Which way should I jump on the mat if I want to add?"
- The teacher will select a student to say, "When we add, out numbers get larger, so we must jump toward the 20."
- The teacher will then ask, "How many spaces should I jump to add 3 + 2?"
- The teacher will select a student to say, "Two spaces!"
- The teacher will stand on the 3, jump two spaces forward and land on the 5.
- The teacher will ask "What does 3 + 2 = ?"
- The teacher will select a student to say, "FIVE"
- The teacher will repeat the same questions and modeling for the subtraction problem 12 – 7

= ?
- The teacher will then tell the class that they are going to use the hopping mat to help them solve word problems.
- The teacher will read the problem, "Meg had four apples. Suzy came over and gave Meg five more apples. How many apples does Meg have all together?"
- The teacher will show the students a bag with paper apples in it.
- The teacher will ask a student volunteer to place paper apples on the Math&Movement Count by 2' s mat to demonstrate how many apples Meg started off with.
- The teacher will then ask another student volunteer to place apples on the mat to demonstrate how many apples that Suzy gave to Meg.
- The teacher will then ask a student volunteer to jump on the mat to determine how many apples Meg now has.
- The teacher will repeat with the word problem: Tim has seven apples. John takes five apples away. How many apples does Tim have left?
- The teacher will repeat with another addition word problem: Caroline has twelve apples and Tara gives her three more. How many apples does Caroline have now?
- The teacher will repeat with another subtraction problem. Mark has fifteen apples. He ate two apples. How many apples does he have now?
- The teacher will ask all students to take their seats.
- The teacher will pass out the Math&Movement *Addition and Subtraction to 20 – Word Problems* activity sheet.
- The teacher will read the directions to the students, and tell them to begin.
- The teacher will monitor the students and help as needed.

B. Closure (10 minutes)

When the students are finished with their activity sheet, the teacher will call for the attention of the class. The teacher will ask a student to explain what they learned in today's math lesson. The teacher will ask the class, "How can we use the Count by 2's mat to add and subtract? What direction will we need to jump to add? What direction will we need to jump to subtract? Why is it important that we learn how to add and subtract? When will it be important for us to add and subtract outside of school?" The teacher will tell the class that they did a great job, and tell them what they can expect from their next math lesson.

V. Assessment

- The teacher can assess the students informally by monitoring and observing the class while they are completing the lesson's activities.
- The teacher can assess the students formally by grading the students' Math&Movement *Addition and Subtraction to 20 – Word Problems* activity sheets.

VI. Materials

- *What's New at the Zoo* by Suzanne Slade.
- Math&Movement Count by 2's mat
- Math&Movement *Addition and Subtraction to 20 – Word Problems* activity sheet.
- Pencils
- Paper apples
- Bag