

## Friendship Quilt Lesson Plan (3rd grade)

### **INTRODUCTION:**

This lesson incorporates math. Also incorporated in this lesson are four learning modalities: visual, language, auditory and fine motor.

### **BEHAVIOR OBJECTIVE:**

The main objective is to instill in the students an understanding of individual shapes and patterns.

Students will be able to:

1. Determine if a shape is congruent
2. Form shapes
3. Show a line of symmetry
4. Design a quilt pattern
5. Find similarities and differences between shapes and patterns
6. Use concepts of measuring.

Standards:

Standard 5: Measurement and Discrete Mathematics

Foundations (grade 1-3) (5M-F1)

Demonstrate that a single object has different attributes that can be measured in different ways (e.g., length)

### **ANTICIPATORY SET:**

1. Teacher will ask students to sit on the carpet and begin discussion by saying "Raise your hand if you can tell me a type of shape?"
2. Listen and reinforce correct answers.
3. Teacher will write student responses on a K-W-L chart.
4. Teacher will ask the students "What do you want to learn about shapes?"
5. Teacher will record responses on K-W-L chart.
6. Teacher will read the book, The Greedy Triangle.
7. Teacher will ask students to retell the story.

### **TEACHER INPUT:**

Teacher will begin her lesson by testing the student's prior knowledge about shapes. Teacher will ask the students "Does anyone know what the word congruent means?" Students will give various responses of what they think (e.g., it's something that means the same, I think." "Very good answer," teacher replies (reinforce appropriate behavior). "Now I am going to draw a picture on the board of what the word congruent means." (The teacher will draw a picture of a box on the board). The teacher will ask the question again, "Does anyone know what the word congruent means?" Many students will raise their hands to answer the question. "Thank you for raising your hands" (reinforce appropriate behavior). Students will have a better understanding of what the word congruent means after seeing the picture on the board and reply with the correct answer.

### **MODELING THE BEHAVIOR:**

Teacher will model for the students on the overhead different shapes such as a square, a triangle, a rectangle and a circle. The students will be asked to name the shapes. Teacher will explain to the students how they are describing different types of shapes. Teacher will ask the students what the similarities and differences are about each shape. Teacher will also ask the students which shape has symmetry.

**CHECK FOR COMPREHENSION:**

Students will be given a review sheet about the vocabulary terms they have learned. They are to mix and match the correct word with the correct definition. (Example: congruent, symmetry, similarity, difference, etc.). The teacher will circulate and check their answers

**GUIDED PRACTICE:**

Students will be given three different shapes made out of construction paper. Students will compare their shapes for similarities and differences and record on a class chart.

**CLOSURE:**

Teacher will read the literature book, The Keeping Quilt to the students and discuss.

**INDEPENDENT PRACTICE:**

Teacher will explain to the students that today they are going to make a class friendship quilt using one shape but different colors. Teacher will pass out a piece of construction paper and give them the measurement of what their congruent square is to measure. Students are to cut out their squares. In the center of their square, students are to write and finish the sentence "A friend is..." Working with the entire class around the large piece of butcher paper, students begin placing their individual squares in a design leaving a small margin between each square for a border. Students are to rearrange them several times and then choose the arrangement they like best. Students will glue on their piece and make a border of construction paper.

**ASSESSMENT:**

Teacher will observe the students working together on their friendship quilt. The teacher will encourage all students to participate.

**MATERIALS:**

1. Overhead projector
2. Construction paper
3. Pencils, crayons, markers
4. Glue
5. Scissors
6. Butcher paper
7. Literature books:
  - The Greece Triangle by: Marilyn Burns
  - The Keeping Quilt by: Patricia Polacco

**MODIFICATIONS FOR STUDENTS WITH DISABILITIES:**

Students may work with manipulatives to get a better understanding on the concept of the shapes.

**TECHNOLOGY INTEGRATION:**

Students will write a letter to a friend on the computer and tell them about how they felt while making a friendship quilt, describing the shapes they used, including in their letter the vocabulary from the vocabulary review sheet.

