## Objective

By the end of this lesson, the student will understand the concepts of area and perimeter, be able to calculate both for various shapes, and appreciate how these concepts apply to real-life situations.

## **Materials and Prep**

- Paper
- Pencil
- Ruler (if available)
- Calculator (optional, for checking work)
- Access to a flat surface for drawing shapes

Before the lesson, ensure the student understands basic multiplication and addition, as these will be used in calculating area and perimeter.

## Activities

- 1. **Shape Drawing:** The student will draw different shapes such as rectangles and squares on paper. They will label the lengths of the sides and calculate the area and perimeter of each shape. This hands-on activity will help them visualize the concepts.
- 2. **Real-Life Area and Perimeter:** Have the student measure a room in their home using a ruler or measuring tape. They will calculate the area and perimeter of the room, discussing how these measurements relate to real-life scenarios like flooring or painting walls.
- 3. **Area and Perimeter Games:** Create a simple game where the student must match shapes with their correct area and perimeter calculations. This can be done by cutting out shapes and writing their measurements on separate pieces of paper.

## **Talking Points**

- "What do you think area means? Area is how much space is inside a shape!"
- "Can you tell me what perimeter is? Perimeter is the distance around a shape!"
- "Let's think about a rectangle. If one side is 4 units and the other is 3 units, how do we find the area?"
- "Great! We multiply the length by the width. So, what is 4 times 3?"
- "Now, how do we find the perimeter? We add all the sides together!"
- "If we have our rectangle, what would the perimeter be if we add 4, 3, 4, and 3?"
- "Why do you think knowing area and perimeter is useful in real life?"
- "Can you think of a time when you might need to measure area or perimeter? Maybe when you want to put a rug in your room?"
- "What shapes do you think have the largest area for a given perimeter? Can we find out?"
- "Remember, practice makes perfect! The more we work with area and perimeter, the easier it will get!"