# Objective

By the end of this lesson, you will be able to understand and apply basic geometry concepts through fun activities related to Pokemon.

# Materials and Prep

- Paper
- Pencil
- Pokemon cards or pictures (optional)

No prior knowledge of geometry is required.

# Activities

- Activity 1: Pokemon Shape Hunt

  Go on a Pokemon shape hunt around your house or backyard. Look for objects or features that resemble different shapes such as circles, squares, triangles, or rectangles. Draw a sketch of each shape you find and label them with their corresponding names.

- Activity 2: Pokemon Symmetry

  Choose a Pokemon card or picture and fold it in half vertically. Open it up and observe if the two halves are identical. Discuss the concept of symmetry and identify any lines of symmetry on the Pokemon image.

- Activity 3: Pokemon Area and Perimeter

  Select a Pokemon card or picture and measure its length and width using a ruler or any other non-standard measuring tool like paperclips or fingers. Calculate the area by multiplying the length and width, and then find the perimeter by adding the lengths of all sides.

# Talking Points

- Shapes:
  - "Shapes are all around us, just like Pokemon! We can find shapes in everyday objects and even in Pokemon characters."
  - "A circle is a shape that is round and doesn't have any corners. Can you think of a Pokemon that resembles a circle?"
  - "A square has four sides that are all equal in length. Can you find a Pokemon that looks like a square?"
  - "A triangle has three sides and three corners. Do you know any Pokemon with a triangular shape?"
  - "A rectangle has four sides with opposite sides being equal in length. Can you identify a Pokemon that has a rectangular shape?"
- Symmetry:
  - "Symmetry means that if we fold something in half, both sides will be exactly the same."
  - "Look at this Pokemon picture. Can you fold it in half and see if both sides are identical?"
  - "Do you notice any lines on the Pokemon image that divide it into two equal halves?"
- Area and Perimeter:
  - "When we measure the length and width of an object, we can find its area and perimeter."
  - "Area is the amount of space inside a shape. We can find it by multiplying the length and

width of a rectangle or square."
- "Perimeter is the distance around the outside of a shape. We can find it by adding up the lengths of all the sides of a rectangle or square."
- "Let's measure the length and width of this Pokemon card and calculate its area and perimeter."