

DRAWING AND PROPERTIES OF SHAPES

Subject

Mathematics

Prepared By

[Instructor Name]

Grade Level

2

Overview

This lesson plan covers teaching content for;

1. Properties of shapes.
2. Drawing of shapes

Objectives

Students should be able to;

1. Tell various properties and attributes of a triangle, circle, square, and a triangle.
2. Draw these shapes.

Activity Starter/Instruction

1. Tell the students, today we will learn about plane shapes
2. Plane shapes are all around us, but how do we know what shapes are plane shapes?
3. In this lesson, you will learn what plane shapes are and explore their different types and properties.
4. Explain to students that plane shapes in mathematics are any closed, flat, 2-dimensional shapes.

Teacher Practice

Lesson 1-20 Mins

1. Draw diagram of regular plane shapes on the board or project it in front of the class
2. Read out each of the shapes (students should be familiar with most already), "as you can see, the image contains a circle, square, rectangle and a triangle."
3. Say to students, for you to learn how each

Guided Practice

Lesson 1-15 Mins

Making a Triangle

1. Give each students four piece of matchsticks and tell them to make a square.
2. Then tell them to take away one of the sides. Discuss why it will never be a square now. -Because a square have four equal sides and we have three sides left
3. Tell them to close up the three remaining sides and ask what they see.
4. Discuss how they know it's a triangle. - Because a triangle have three sides
5. Now tell the children to break one side in half, throw the half away and make a

Materials Required

- Matchstick
- Plane shapes
- Construction papers
- Scissors

Additional Resources

- <https://betterlesson.com/lesson/594266/intro-to-2d-shapes?from=search>
- <https://betterlesson.com/lesson/563172/shar-lines-assessment?from=search>
- <https://betterlesson.com/lesson/530475/prog-of-plane-shapes?from=search>

Additional Notes

Assessment Activity

1. Divide the children into small groups and ask them to look around their classroom and find squares in everyday objects. Instruct each group to measure one square object with a ruler and describe it to the rest of the class.

2. Provide a worksheet where they identify and draw shapes based on their attributes. Example:

- Draw a shape that has four sides
- Draw a shape with no corners
- What shape has 0 vertices, 0 sides?
- What shapes have 4 sides, 4 angles?

of this shapes is drawn; you must know each of their properties. Plane shapes have properties including side, corners, and faces.

Square

4. Explain to students that a square has four sides, but not just any four sides. A square's four sides are all the same length.
5. Illustrate to them as you model on the board or with objects. A square with one-inch sides is smaller than a square with three-inch sides because one is less than three. A square also has four corners.

Rectangle

6. Tell students that a rectangle is similar to a square, but instead of having four equal sides, a rectangle has two equal sides of one length and two equal sides of a different length. A rectangle is like a stretched square.
7. Make them understand that the difference between a square and a rectangle is both figures have four corners, but no four equal sides for the rectangle.

triangle out of the remaining three pieces.

6. Discuss how this triangle is different from the previous one by explaining that triangle need not have equal sides.
7. Show the students image of different types of triangle. E.g. Acute, Obtuse, Isosceles.

Circles

8. Give students a piece of string and ask them to make circles with the string on their desks.
9. Discuss how many sides and corners a circle has: none.
10. Let each students pick a piece of construction paper. Fold it in half and show them how to trim the edges; open it up and it's a circle.

Summary		
1. To end the class, have students look around the classroom and point out different shapes of object they see.		