

# LESSON PLAN

|              |   |
|--------------|---|
| Subject:     | Maths   |
| Grade level: | Elementary  |
| Topic:       | Shapes and Patterns   |
| Subtopics:   | <ul style="list-style-type: none"><li>• Which are the different shapes?</li><li>• Properties of shapes</li><li>• Completing patterns of shapes.</li></ul> |

## Learning Objectives:

1. Children will be able to identify and draw different shapes like square, triangle, rectangle, cylinder, and circle.
2. Children will be able to state the properties of these shapes.
3. Children will be able to complete the patterns made from these shapes.

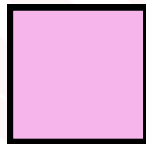
## Materials Required:

- Chalk
- Shape cut outs
- Geoboard

### ICE BREAKER SESSION: Storytelling

Begin the lesson in an interactive way with the help of the following story.

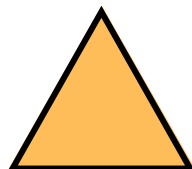
Once there was a queen who was very upset with the king. She asked the king to make prepare the dinner for her. The king had never done that before. He somehow managed to make the curry but just could not made the chapati. The first time when he made the chapati, it tuned out to be something like that.



The queen looked at it and she was furious. The king again tried to make a chapati and this time it tuned out to be something like this.



The queen flew into rage. The king thought of giving it a last try. He was clever. The chapati he made turned out something like this but the queen happily ate it. Can you guess why?



Let children think for a while before giving away the answer. Collect all sorts of answers and ask them to give reasons for them.

Well, it was because the chapati was of the shape of the queen's face.

## LESSON: Learning shapes using geoboard

Now, deep dive into the main topic. Geo board is an excellent way to demonstrate and show children different shapes. Make sure that you go very slow while demonstrating. Ask children to draw the shapes side by side in their notebooks.

- Bring a geoboard to the class.
- Make simple shapes like square, triangle and rectangle on the geoboard and while forming these shapes, explain the properties of these shapes.

Square= 4 sides ( all sides are equal)

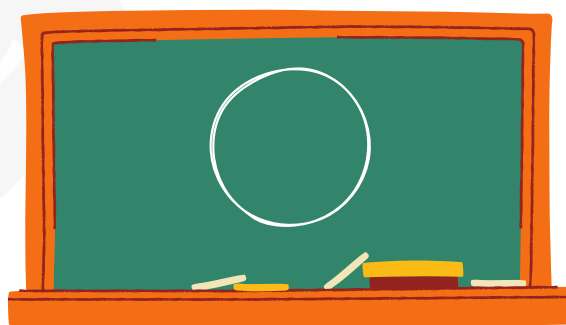
Rectangle= 4 sides ( opposite sides are equal)

Triangle= 3 sides ( all sides can be/can not be equal or two sides can be equal)

- Now ask children to construct these shapes in their notebooks and label them.



Draw the remaining shape circle on the black board.



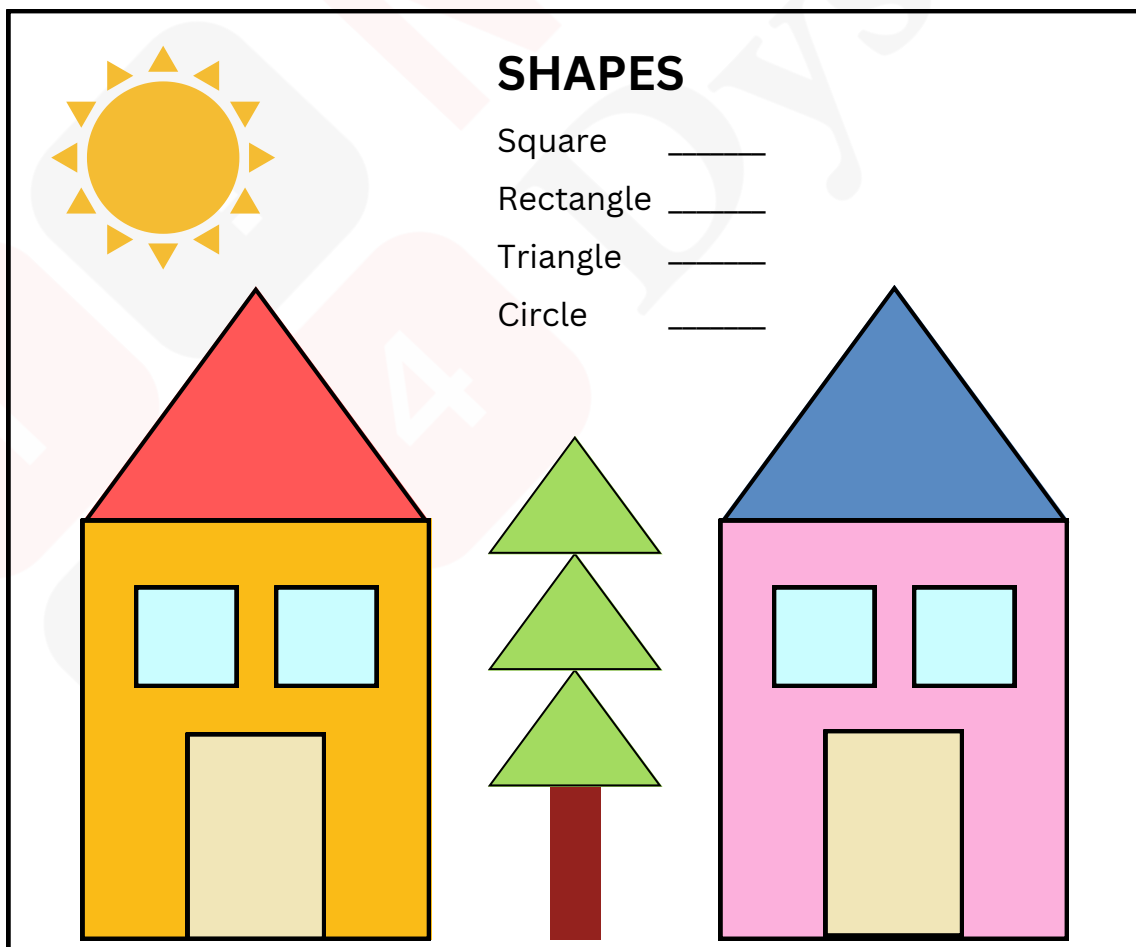
Once the activity is complete, randomly ask children a few questions to check for understanding before moving on to the next activity.

## ACTIVITY 1 : SHAPE HUNT

- Ask children to go on a shape hunt.
- Make a list of all the items around them which is circular in shape, triangular in shape, in the shape of square, rectangle and cylinder.
- Ask children to share their lists with their partners.


## ACTIVITY 2 : CAN YOU COUNT ALL THE SHAPES

Look at the picture given below. Count the number of squares, circle, rectangle and triangles in it.



### ACTIVITY 3 : Completing the patterns

Ask children to complete the following shape patterns.

1.  \_\_\_\_\_

2.  \_\_\_\_\_

3.  \_\_\_\_\_

4.  \_\_\_\_\_

5.  \_\_\_\_\_

6.  \_\_\_\_\_

7.  \_\_\_\_\_

8.  \_\_\_\_\_