

# **LESSON PLAN**

### **SPECIFIC OBJECTIVES**

The students will

- know about basic geometrical shapes.
- learn how to form a rectangle, a square and a triangle using paper cutting and folding.
- learn to create designs on dotted paper using straight and curved lines.
- know the view of a solid object by observing it from different directions.
- know the number of faces, edges and vertices of a solid.
- understand the tangram.

### **CONTENTS EXPLAINED INSIDE THE CHAPTER**

- Basic Geometrical Shapes (pages 139–140)
- Solids Around Us (pages 150)
- Surfaces of Solids And Their Sketches (pages 150–151)

### **TEACHING AIDS**

• A square grid paper, a dot paper, a coloured paper, a pair of scissors, different types of solid objects, paper, a pencil, etc.

### **TEACHING STRATEGY**

- First, the teacher should take a triangular piece of square grid paper and explain them how to make the biggest rectangle/square on it. Then, she should ask them to complete the task given under 'Let Us Recall'.
- She should also discuss about different types of plane shapes with their features. She may involve them in performing paper folding activity for obtaining other shapes. For text and exercise, she should go to pages 135–138.



- Further, she should show a few solid objects to the class and ask them how they look like from different angles. Then, she provides them with some solids and asks to sketch their view in 3 groups of 1–4 students.
- Again, she should discuss about the nature of faces of the solids and motivate them to make rough sketches. Also, she should encourage them to recognise their faces, edges and vertices. For text and exercise she should go to pages 150–152.
- Then, she should motivate them to enjoy the Maths Lab Activity. If needed, she should help them.
- Finally, she should gives the idea of a map and encourage them to make a rough sketch of any part of their surroundings.

## **EXPECTED LEARNING OUTCOMES**

Students will be able to

- recognise different geometrical shapes.
- obtain few plane shapes using paper folding activity.
- explain the feature of these shapes.
- sketch the views of solids at different angles.
- explain the nature of surfaces of the given solids.
- recognise the faces, edges and vertices of the solids.
- create a variety of shapes by arranging 5 or 7 pieces of the tangram.
- draw a beautiful pattern on dot paper.

For assessing Chapters 1–5, the teacher may assess the students using Periodic Test-2 or preparing a similar sheet.

