Perimeter and Area

LESSON PLAN

SPECIFIC OBJECTIVES

The students will

❍ know the perimeter of rectilinear figures.

❍ learn to find the perimeter of rectilinear figures on a square grid.

❍ conceptualise the term 'area'.

❍ learn how to calculate the area of a shape using a squared graph paper.

❍ know the formulas to find the perimeter and area of a rectangle and a square.

❍ learn the use of a geoboard.

❍ be able to solve the problems involving perimeters and areas in daily life activities.

CONTENTS EXPLAINED INSIDE THE CHAPTER

❍ Perimeter (pages 163–167)

❍ Area (pages 167–171)

TEACHING AIDS

A squared grid paper or graph paper, a tracing paper, a plain paper, a geoboard, rubber bands, a pencil, sketch pens, a matchbox, a postcard

TEACHING STRATEGY

❍ The teacher should start the chapter with group activity. She may ask the students to measure the edges of their desk with a pencil or cover the tabletop using notebooks or textbooks, etc. Then, she should ask them to solve the questions given on page 163.

❍ Next, the teacher should explain to them the idea of perimeter for different rectilinear figures. She should also discuss will them how to find the perimeter using a square grid paper. For text and exercise, she should go to pages 163–167.

○ Thereafter, the teacher should talk with them about the area of some shapes. She should also explain how to calculate the area of figures on a grid/graph paper. Hence, she should ask them to remember the formulas to find out the area of a rectangle or a square. For text and exercise, she should go to pages 167–171.

○ Finally, the teacher should involve the students in Maths Lab Activity to reinforce their understanding.

EXPECTED LEARNING OUTCOMES

Students are able to

○ understand the meaning of 'perimeter' and 'area'.

○ calculate the perimeter of rectilinear figures.

○ calculate the perimeter of a rectangle and a square using formulas.

○ find out the approximate area of different shapes on a grid or graph paper.

○ calculate the area of a rectangle and a square using formulas.

● At the end of the semester, the teacher may assess the students using the materials of Model Test Paper or preparing a similar paper herself.