

SUBJECT : MATHEMATICS
CLASS : VI
TOPIC : MENSURATION

Pre-Content/Content/Post-Content	Learning Outcomes/Objectives	
	General	Specific
<u>PRE-CONTENT</u> • Perimeter <u>CONTENT</u> • Measurement of Perimeter using formula • Area • Measurement of Area using formula <u>POST-CONTENT</u> • Application based problems	Students will be able to ✓ relate and visualize the concept ✓ apply the formula and solve ✓ relate and apply the concept ✓ apply the formula and solve the problems ✓ apply the knowledge in solving HOTS	Students will be able to ✓ recall perimeter by calculating the boundaries of any closed figure ✓ understand and apply the required formulae to find their perimeter ✓ understand and apply the concept of area in finding the area of any object ✓ understand and apply the formula as per the questions ✓ apply problem solving skills and perform the required calculations in real life problems

Home Work /Assignments:

1. NCERT exercise/solved examples given as home task.
2. Extra practice questions.

Teacher's Activity	Student's Activity	Teacher's Observation and Remedial
Teacher will help the students to recall the concept of perimeter by posing various questions. take up a few examples to find out the perimeter using the formula. conduct the activity and helps the students to find out the area of various irregular figures using graph paper. (Annexure-10) take up a few examples to find out the area using formula. make the students to solve various application based problems.	Students will recall perimeter and solve the questions. understand and apply the formula to find out the perimeter of various figures. perform the activity as per the instructions given and learn to find out the area of irregular figures by counting squares and write their observations. (Annexure-10) comprehend the concept of area and apply the formula to find out the area of various figures. solve real life problems using formula.	Teacher will write his/her observations after the completion of the topic.

Teaching Aids: Smart board, ICR, Graph paper.

Methodology/Innovative Methods: Discussion, Brain storming, Activity oriented.

Interdisciplinary Links: Linked with Art, Real life.

H.O.D.

Coordinator

Vice-Principal

Principal

Annexure-10

Subject	MATHEMATICS
Class	VI
Chapter/Unit	Mensuration
Topic	Area of Irregular Figures
Time	30 minutes
Nature of Activity	Group

What will I learn (Learning outcome)?

To compute the area of irregular figures by counting squares.

Skills:- Integrating Art, Psychomotor Coordination, Recognizing, Assimilating

What I have to do?

To compute the area of irregular figures.

What do I require?

Graph paper/square grid paper and coloured pencil.

What do I need to know?

Concept of Perimeter and Area.

➤ **Teacher's Activity**

Teacher will

- enable the students to recall the concept of perimeter and area.
- make groups of five students and will explain the steps of the activity.

How will I proceed?➤ **Student's Activity**

- Take a graph paper or squared grid paper and select any one student from each group.
- Then, the selected student from each group will place his/her palm on that graph or grid paper and move the pencil around it to trace the boundary as shown in Fig.1.



Fig.1

- Count the number of squares enclosed in the boundary by taking half as half, more than half as one and leave the others i.e., less than half.
- The other members of the group will record it in a tabular form.

What have I observed?

Complete the following table:

Group No.	Number of squares (more than half)	Number of squares (half)	Total of halves	Area in squares

What have I learnt?

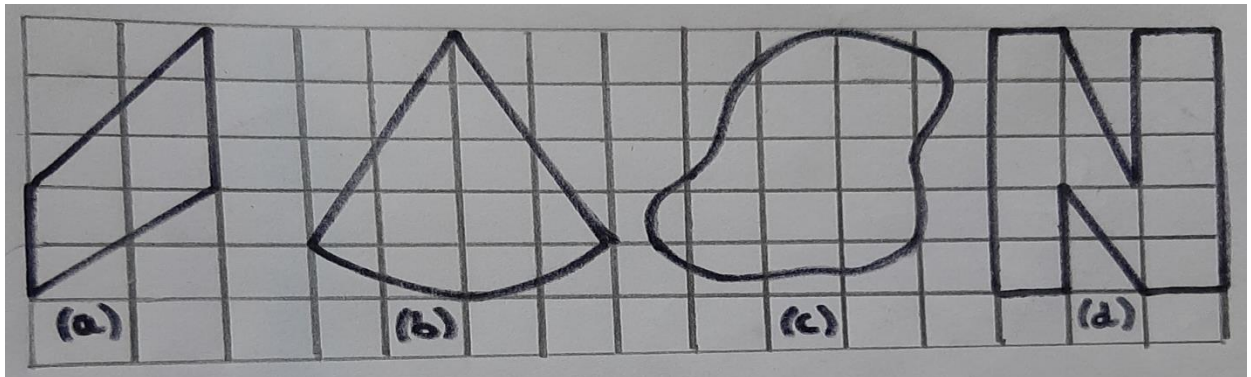
To compute the area of _____ figures by counting squares.

What am I curious to know?

Find the area of any one shape from your surroundings by counting squares.

Let me evaluate myself

- Fill in the blank:
Area can be expressed in terms of _____.
- Find the area of the following figures:



- (a) _____
- (b) _____
- (c) _____
- (d) _____