

SUBJECT: MATHEMATICS
TOPIC: WHERE TO LOOK FROM

LESSON PLAN
CHAPTER NO : 1

<u>PRE-CONTENT/CONTENT/ POST-CONTENT</u>	<u>LEARNING OUTCOMES/OBJECTIVES</u>	
	<u>GENERAL</u>	<u>SPECIFIC</u>
<u>PRE-CONTENT</u> - Types of views <u>CONTENT</u> - Introduction to symmetry - Symmetry meaning and definition - Completing the Mirror Halves - English Alphabets with different lines of symmetry <u>POST-CONTENT</u> - Rangoli Designs	Students will be able to : observe the types of views relate and visualize the concept. design the symmetrical figures by paper folding evolve the meaning and recognize the symmetry in nature design the symmetrical figures by completing the drawings of the objects identify and construct lines of symmetry in different English Alphabets. assimilate the concept of symmetry in real life by drawing Rangoli patterns.	Students will be able to : sketch different objects from different views relate symmetry to objects in the surroundings identify and construct line of symmetry as per the figures create and discover the beauty of symmetry in nature create and design symmetrical figures using line of symmetry. classify the English alphabets with no, one or two lines of symmetry. correlate symmetry with Rangoli designs drawn by people.

Home Work /Assignment :

- Problems from NCERT Book – Math Magic

AND PROGRESS**MONTH : SEPTEMBER****CLASS : III**

<u>TEACHER'S ACTIVITY</u>	<u>STUDENT'S ACTIVITY</u>	<u>TEACHER'S OBSERVATION AND REMEDIAL</u>
Teacher will : show different objects, ask the students to draw what they can see from different views and then introduce the 3 types of views. <u>ANNEXURE 1</u> conduct an activity to introduce the concept of symmetry. demonstrate the concept of symmetry and number of lines of symmetry through paper folding technique using cutouts of basic 2- D shapes. show various symmetrical figures present in the surroundings. demonstrate how to complete the mirror halves of different figures using the concept of symmetry. write different English alphabets on different papers and use the paper folding technique to demonstrate the number of lines of symmetry in English alphabets. draw a few rangoli designs on the dot grid given in the book Pg – 5 to relate the concept of symmetry.	Students will : follow instructions and draw the different views of different objects. Also complete the exercises given in NCERT book Pg – 2. <u>ANNEXURE 1</u> perform the activity and understand the concept of Symmetry. participate in the activity, compute the number of lines of symmetry in basic 2- D shapes by paper folding technique. paste/draw pictures of real life symmetrical objects. work out the exercises of NCERT given on Pg – 11 and examples given by the teacher in their notebook. observe the technique shown by the teacher and follow it to complete with other alphabets and then classify the alphabets with no, one or two lines of symmetry. sketch/draw various beautiful Rangoli designs using the dot grid in their notebook. Also complete exercise on Pg – 5.	Teacher will write his/her observations after the completion of the topic/s.

Teaching Aids: Cutouts of 2-D shapes, Square dot grid, pencil , sketch pens, coloured papers, Smart Board , Internet etc.

Methodology/Innovative Methods: Learning by Doing, Activity Method, Integrating Art and Digital Technology.

Interdisciplinary Links: Linked with Art and Real life.

H.O.D.**Coordinator****Head Mistress****Principal**

ANNEXURE 1
WHERE TO LOOK FROM

3/5

SUBJECT	MATHEMATICS
CLASS	III
CHAPTER/UNIT	WHERE TO LOOK FROM
TOPIC	SYMMETRY
TIME	20 MINUTES
NATURE OF ACTIVITY	INDIVIDUAL

What will I learn(Learning Outcome)?

The students will be able to understand the concept of symmetry through learning by doing.

Skills: Understanding, Creating, Creativity, Integrating Art.

What we have to do?

To apply the concept symmetry to make a funny face/ smiley.

What do I require?

Origami sheets, bangle/bottle cap, sketch pens, googly eyes, glue stick, scissors, pencil and erasers.

What do you need to know?

Name of various 2-D shapes and their properties.

➤ **Teacher's Activity :**

Teacher will recall the 2- D shapes, their properties and demonstrate how to fold it into two equal halves.

How will you proceed ?

➤ **Student's Activity:**

- 1) Take an origami sheet and fold it in half along the center (refer Fig. No. 1)



(Fig. No. 1)

- 2) On one side draw half a circle using any bangle or bottle cap (refer Fig. No. 2).



(Fig. No. 2)

- 3) Cut it out along the boundary of the half circle using a pair of scissors.
- 4) Now open the fold, draw the eyes (or paste googly eyes) and smile to make a funny face/ smiley, color it and paste it in the notebook (refer Fig. No. 3)



(Fig. No. 3)

What have you observed ?

Symmetry of an object can be determined by folding it from its center.

What have you learnt?

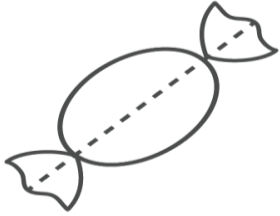
Symmetry gives us two exact equal halves. Symmetry cannot be observed in all the objects around us.

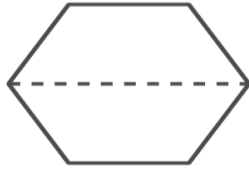
What am I curious to know?

Can I use the concept of symmetry to make a beautiful face mask?

Let me evaluate myself

Q1) Tell whether the dotted lines on each represent line of symmetry or not. Write 'YES' or 'NO'.









Q2) Draw the other half of each symmetric shape.

