

ACTIVITY-17

SYMMETRY

LINE OF SYMMETRY

1. What we have to do?

To show the Line of Symmetry of plane figures by paper folding.

2. What is required?

Cut-outs of geometrical figures (Equilateral triangle, Isosceles triangle, Square, Rectangle, Rhombus) and adhesive.

3. How much time required for this activity?

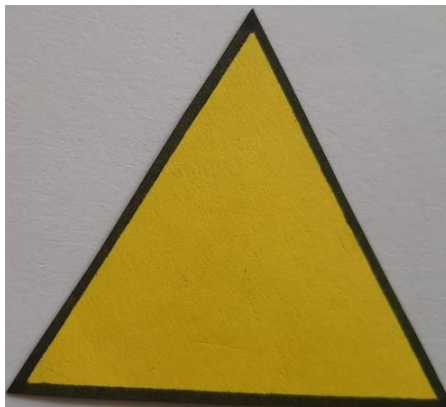
35-40 minutes.

4. What do you need to know?

Knowledge of Symmetry.

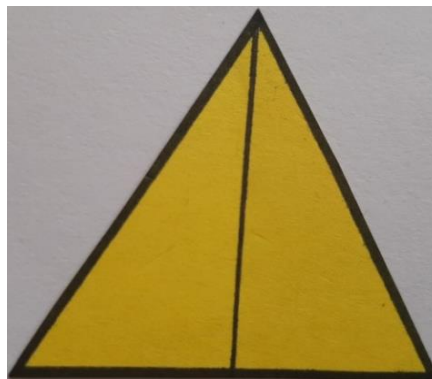
5. How will you proceed?

- a. Take a cut-out of an Equilateral Triangle as shown in Fig.1.



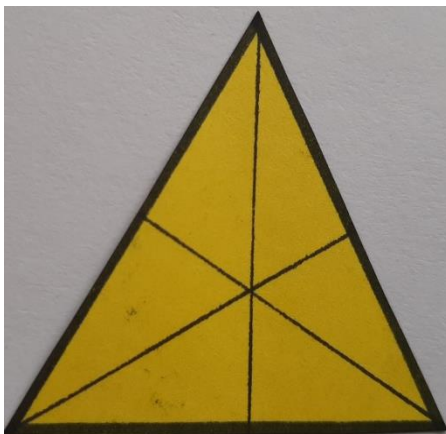
(Fig.1)

- b. Fold it through a vertex so that the two parts of the triangle cover each other exactly as shown in (Fig.2).



(Fig.2)

- c. Now, unfold and mark the crease or the line of fold.
- d. Fold the triangle in such a way other two vertices to get more lines of symmetry as shown in Fig.3.



(Fig.3)

- e. Repeat the activity by taking cut-out of other geometrical figures. Mark the line(s) of symmetry in each case, if any.

6. What have you observed?

- Complete the given table:

Name of the Figures	Figure with Line(s) of Symmetry	Number of Line(s) of Symmetry
Equilateral Triangle		
Isosceles Triangle		
Square		
Rectangle		
Rhombus		

7. What have you learnt?

8. What you have to do as extended activity?

- Make any 5 Tessellation designs using symmetry and also mark line(s) of symmetry.

9. Real Life Application:

Symmetry and line of symmetry can be used to make things beautiful like various arts, buildings, monuments etc.