



**Arts Integrated Sessions – 4<sup>th</sup> Std.**

**Subject – Mathematics**

**Chapter – Perimeters**

**Art Medium – Collage**





## **Session Plan –**

### **Session 1 – Paper Exploration (2D)**

#### **Academic Goals for this session –**

- Students will develop their understanding of shapes.
- Students will begin to understand perimeters.

#### **Art Goals for this session –**

- Students will develop their investigation skills through manipulation of papers.
- Students will develop their fine motor skills by tearing and cutting the papers.

#### **Materials**

- Different types of paper (collage/colour paper, newspaper etc.)
- Fevicol
- Scissors
- A4 white paper (to paste the colour papers on)

#### **Activity –**

##### **Introduction**

**Time – 5 minutes**

- Start a conversation with students about lines and shapes.
- Encourage students to observe the various shapes they see around them.

##### **Demonstration**

**Time – 15 minutes**

- Hold a paper in your hand and ask students how you could tear it to get some of the shapes mentioned by the students.  
(*Try their responses*)
- Similarly, ask your students how you could hold the scissors and cut the paper.
- Ask them to guide you in tearing some lines and shapes from the paper.
- Ask them to guide you in cutting some lines and shapes from the paper.
- Make a free form shape and explain what it means, also explain the difference between a geometric shape and a free form shape.



- After making a few lines and shapes ask your students to guide you in placing them on the A4 white base paper.
- Show them how you are arranging all the lines and shapes first and then carefully applying drops of fevicol for sticking it onto the paper.

### **Working Period**

**Time – 30 minutes**

- Divide the students into groups of four.
- Distribute the papers and encourage them to tear some lines and shapes of their choice.
- After they have torn some lines and shapes hand them the scissors for continuing the explorations.
- When the students have manipulated the papers and created their lines and shapes give them the A4 base paper and fevicol.  
*(Remind them about how fevicol needs to be used.)*

### **Reflection**

**Time – 10 minutes**

- Arrange all the artworks in the centre of the circle and give students two minutes to observe their classmates' artworks.
- Pick one student artwork and ask other students to observe and tell the various lines and shapes the child has used.
- Observing these artworks explain to students the concept of perimeters. Explain to students how they could calculate perimeter for these shapes that they have created.
- Students can work on this individually and look at the various shapes they have created and the perimeter for all these shapes.