1. **_Objective :_** To obtain the conditions for consistency of a system of linear equations in two variables by graphical method.

2. **Objective :** To verify that the given sequence 2,5,8,11,14 ……….. is an Arithmetic Progression by paper cutting and pasting method.

2. **Objective :** To verify that the given sequence 3,5,7,9,11 ……….. is an Arithmetic Progression by paper cutting and pasting method.

2. **Objective :** To verify that the given sequence 1,4,7,10 ……….. is an Arithmetic Progression by paper cutting and pasting method.

3. **_Objective_**

To verify that the sum of first n natural numbers is $\dfrac{n(n+1)}{2}$

i.e; $\sum n = \dfrac{n(n+1)}{2}$, (taking n = 10)

4. *Objective*

To verify that the Basic Proportionality Theorem using parallel line board / Graph papers and triangle cutouts.

5. *Objective*

To derive the section formula; The co-ordinates of the points P(x, y) which divides the line segment joining the points $A(x_1, y_1)$ and $B(x_2, y_2)$ internally in the ratio $m_1 : m_2$ are

$$x = \frac{m_1 x_2 + m_2 x_1}{m_1 + m_2} \quad \text{and} \quad y = \frac{m_1 y_2 + m_2 y_1}{m_1 + m_2}$$

6. **Objective** : To locate the centroid of the triangle graphically and to verify the same using the section formula. Given : P (2,4), Q(4,12) and R (6, 8) as the three vertices of Δ PQR.

7. *Objective*

1. To determine the area of a given cylinder.
2. To obtain the formula for the lateral surface of a right circular cylinder in terms of radius r of its base and height h.

8. *Objective*

To verify using the method of paper cutting, pasting and folding that the lengths of tangents drawn from an external points are equal.

9. Objective: To give suggestive demonstration of the formula for the curved surface area of cone.

10. Objective:

To give suggestive demonstration of the formula for the volume of a sphere in terms of the radius.

11. Objective : To get familiar with the idea of probability of an event through a double colour card experiment.

12. Objective : To verify the trigonometric identities by cutting and pasting using right angled triangle ABC Right angled at B such that AB=12cm, BC = 5 cm and AC = 13cm

12. Objective :To verify the trigonometric identities by cutting and pasting using right angle triangle PQR Right angled at Q with PQ= 6 cm QR= 8 cm & PR = 10cm.