

## ACTIVITES (TERM-II) (Any Eight)

- Activity1: To find geometrically the solution of a Quadratic Equation  $ax^2+bx+c=0$ ,  $a \neq 0$  (where  $a=1$ ) by using the method of computing the square.
- Activity2: To verify that given sequence is an A.P (Arithmetic Progression) by the paper Cutting and Paper Folding.
- Activity3: To verify that  $\sum n = \frac{n(n+1)}{2}$  by Graphical method
- Activity4: To verify experimentally that the tangent at any point to a circle is perpendicular to the Radius through that point.
- Activity5: To find the number of tangent from a point to the circle
- Activity6: To verify that lengths of tangents drawn from an external Point, to a circle are equal by using method of paper cutting, paper folding and pasting.
- Activity7: To Draw a quadrilateral similar to a given quadrilateral as per given scale factor (Less than 1)
- Activity8: (a) To make mathematical instrument clinometer (or sextant) for measuring the angle of elevation/depression of an object  
(b) To calculate the height of an object making use of clinometers (or sextant)
- Activity9: To get familiar with the idea of probability of an event through a double color card experiment.
- Activity10: To verify experimentally that the probability of getting two tails when two coins are tossed simultaneously is  $\frac{1}{4} = (0.25)$  (By eighty tosses of two coins)
- Activity11: To find the distance between two objects by physically demonstrating the position of the two objects say two Boys in a Hall, taking a set of reference axes with the corner of the hall as origin.
- Activity12: Division of line segment by taking suitable points that intersects the axes at some points and then verifying section formula.
- Activity13: To verify the formula for the area of a triangle by graphical method.
- Activity14: To obtain formula for Area of a circle experimentally.
- Activity15: To give a suggestive demonstration of the formula for the surface Area of a circus Tent.
- Activity16: To obtain the formula for the volume of Frustum of a cone.