

Maths Practical Class 10

The syllabus for maths practical class 10 is designed in a way that students will be enriched with the core understanding of the concepts they are studying at this level. Throughout the academic year, class 10 students will be studying the following activities based on important concepts-

Activity	Objective
Activity 1	To obtain the HCF of two numbers experimentally using the Euclid's Division Lemma
Activity 2	To draw a graph of a quadratic polynomial equation and examine that: -The shape of the curve when the coefficient of X^2 is negative -The shape of the curve when the coefficient of X^2 is positive -Number of zeroes
Activity 3	Through the graphical method checking the condition of consistency or inconsistency in a pair of linear equation having two variables.
Activity 4	By completing the square geometrically, calculating the solution of a general quadratic equation.
Activity 5	From a given list of numbers or patterns, identifying the Arithmetic Progression.
Activity 6	Calculate the sum of first n natural numbers.
Activity 7	To obtain the sum of first n odd natural numbers.

Activity 8	Find out the sum of first n even natural numbers.
Activity 9	For an arithmetic progression having n terms, establishing a formula for calculating its sum.
Activity 10	Verification of the distance formula by the graphical representation method.
Activity 11	by the graphical method for finding the area of a triangle and verifying its formula.
Activity 12	to examine the criteria of similarity between two triangles.
Activity 13	Using two intersecting strips with nails drawing a system of similar squares.
Activity 14	Using Y-shaped strips which nails to draw a system of similar triangles.
Activity 15	To verify the Thales theorem, that is, the basic proportionality theorem.
Activity 16	Finding the actual relationship between sides and areas of similar triangles.
Activity 17	To determine that the ratio of the square of the corresponding side of two similar triangles is equal to the ratio of areas of those two triangles.
Activity 18	To draft a quadrilateral equivalent to a given quadrilateral according to the given scale.

Activity 19	Stating and verifying Pythagoras theorem.
Activity 20	Using the Bhaskara method, verifying the Pythagoras theorem.
Activity 21	To experimentally state that any tangent at a particular point to the circle is always perpendicular to the radius through that point.
Activity 22	By selecting a point, finding the total number of tangents possible to a circle.
Activity 23	From the same external point, the length of tangents to a circle are always equal.
Activity 24	to experimentally find the height of a building using a clinometer.
Activity 25	To practically design a frustum of a cone.
Activity 26	Through the experiment, finding out the formula for surface area and the volume of the frustum of a cone.
Activity 27	To create a graph of cumulative frequency curve or ogive of less than type.
Activity 28	To create a graph of cumulative frequency curve or ogive of more than type.
Activity 29	To calculate the experimental probability of throwing a die, that is, 1,2, 3, 4, 5 or 6 500 times and comparing it with the theoretical probabilities given.

Activity 30 By tossing a coin 1000 times, calculating the experimental property of heads or tails and further comparing it with theoretical problems.