

No.	Book	Content	Mark xx / 10	Teacher Sign.	Date
1. Real Numbers					
1	NCERT	Activity 1: To find the HCF of two numbers experimentally based on Euclid Division Lemma.			
2. Polynomial					
1	NCERT	To draw the graph of a quadratic polynomial and observe: (i) The shape of the curve when the coefficient of $x^2$ is positive. (ii) The shape of the curve when the coefficient of $x^2$ is negative. (iii) Its number of zeroes.			
3. Pair of Linear Equation in two variable					
1	NCERT	To verify the conditions of consistency/ inconsistency for a pair of linear equations in two variables by graphical method.			
4. Quadratic Equation					
1	NCERT	To obtain the solution of a quadratic equation ( $x^2 + 4x = 60$ ) by completing the square geometrically			
5. Arithmetic progression					
1	NCERT	Activity 1: To identify Arithmetic Progressions in some given lists of numbers (patterns).			
2	NCERT	Activity 2: To find the sum of first n natural numbers.			
3	NCERT	Activity 3: To find the sum of the first n odd natural numbers.			
4	NCERT	Activity 4: To find the sum of the first n-even natural numbers.			
5	NCERT	Activity 5: To establish a formula for the sum of first n terms of an Arithmetic Progression.			
6. Triangles					

1	NCERT	Activity 1: To establish the criteria for similarity of two triangles.			
2	NCERT	Activity 2: To draw a system of similar squares, using two intersecting strips with nails.			
3	NCERT	Activity 3: To draw a system of similar triangles, using Y shaped strips with nails.			
4	NCERT	Activity 4: To verify Basic Proportionality Theorem (Thales theorem).			
5	NCERT	Activity 5: To find the relationship between areas and sides of similar triangles.			
6	NCERT	Activity 6: To verify experimentally that the ratio of the areas of two similar triangles is equal to the ratio of the squares of their corresponding sides.			
7	NCERT	Activity 7: To draw a quadrilateral similar to a given quadrilateral as per given scale factor (less than 1).			
8	NCERT	Activity 8: To verify Pythagoras Theorem.			
9	NCERT	Activity 9: To verify Pythagoras theorem by Bhaskara method.			
7. Co-ordinate Geometry					
1	NCERT	Activity 1: To verify the distance formula by graphical method.			
2	NCERT	Activity 2: To verify section formula by graphical method.			
3	NCERT	Activity 3: To verify the formula for the area of a triangle by graphical method.			
9. Some Applications of Trigonometry					
1	NCERT	Activity 1: To find the height of a building using a clinometer.			
10. Circles					
1	NCERT	Activity 1: To verify experimentally that the tangent at any point to a circle is perpendicular to the radius through that point.			
2	NCERT	Activity 2: To find the number of tangents from a point to a circle.			

3	NCERT	Activity 3: To verify that the lengths of tangents to a circle from some external point are equal.			
12. Areas related to circles					
1	NCERT	Activity 1: To obtain formula for area of a circle experimentally.			
2	NCERT	Activity 2: To form a frustum of a cone.			
13. Surface Areas and Volumes					
1	NCERT	Activity 1: To obtain formulae for the surface area and the volume of a frustum of a cone.			
14. Statistics					
1	NCERT	Activity 1: To draw a cumulative frequency curve (or an ogive) of less than type.			
2	NCERT	Activity 2: To draw a cumulative frequency curve (or an ogive) of more than type.			
15. Probability					
1	NCERT	Activity 1: To determine experimental probability of 1, 2, 3, 4, 5 or 6 by throwing a die 500 times and compare them with their theoretical probabilities.			
2	NCERT	Activity 2: To determine experimental probability of a head (or a tail) by tossing a coin 1000 times and compare it with its theoretical probability.			