

No.	Book	Content	Mark xx / 10	Teacher Sign.	Date
1. Number System					
1	NCERT	Activity 1: To construct a square-root spiral			
2	NCERT	Activity 2: To represent some irrational numbers on the number line.			
2. Polynomial					
1	NCERT	Activity 1: To verify the algebraic identity : $(a + b)^2 = a^2 + 2ab + b^2$			
2	NCERT	Activity 2: To verify the algebraic identity : $(a - b)^2 = a^2 - 2ab + b^2$			
	NCERT	Activity 3: To verify the algebraic identity : $a^2 - b^2 = (a + b)(a - b)$			
	NCERT	Activity 4: To verify the algebraic identity : $(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$			
	NCERT	Activity 5: To verify the algebraic identity : $(a + b)^3 = a^3 + b^3 + 3a^2b + 3ab^2$			
	NCERT	Activity 6: To verify the algebraic identity: $(a - b)^3 = a^3 - b^3 - 3(a - b)ab$			
	NCERT	Activity 7: To verify the algebraic identity : $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$			
	NCERT	Activity 8: To verify the algebraic identity : $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$			
3. Coordinate Geometry					
	NCERT	Activity 1: To find the values of abscissae and ordinates of various points given in a cartesian plane.			
	NCERT	Activity 2: To find a hidden picture by plotting and joining the various points with given coordinates in a plane.			

4. Linear Equations in Two Variables				
5. Introduction to Euclid's Geometry				
6. Lines and Angles				
	NCERT	Activity 1: To verify experimentally that if two lines intersect, then (i) the vertically opposite angles are equal (ii) the sum of two adjacent angles is 180° (iii) the sum of all the four angles is 360°		
	NCERT	Activity 2: To verify that the sum of the angles of a triangle is 180° .		
7. Triangles				
	NCERT	Activity 1: To verify experimentally the different criteria for congruency of triangles using triangle cut-outs.		
	NCERT	Activity 2: To verify exterior angle property of a triangle.		
8. Quadrilaterals				
	NCERT	Activity 1: To verify experimentally that the sum of the angles of a quadrilateral is 360° .		
9. Areas of Parallelograms and Triangles				
	NCERT	Activity 1: To verify experimentally that in a triangle, the longer side has the greater angle opposite to it.		
	NCERT	Activity 2: To verify experimentally that the parallelograms on the same base and between same parallels are equal in area.		
	NCERT	Activity 3: To verify that the triangles on the same base and between the same parallels are equal in area.		
	NCERT	Activity 4: To verify that the ratio of the areas of a parallelogram and a triangle on the same base and between the same parallels is 2:1		
10. Circles				
	NCERT	Activity 1: To verify that the angle subtended by an arc of a circle at the centre is double the angle subtended by it at any point on the		

		remaining part of the circle.			
	NCERT	Activity 2: To verify that the angles in the same segment of a circle are equal.			
	NCERT	Activity 3: To verify that the opposite angles of a cyclic quadrilateral are supplementary			
11. Constructions					
12. Heron's Formula					
13. Surface Area and volumes					
	NCERT	Activity 1: To find the formula for the area of a trapezium experimentally			
	NCERT	Activity 2: To form a cube and find the formula for its surface area experimentally.			
	NCERT	Activity 3: To form a cuboid and find the formula for its surface area experimentally.			
	NCERT	Activity 4: To form a cone from a sector of a circle and to find the formula for its curved surface area.			
	NCERT	Activity 5: To find the relationship among the volumes of a right circular cone, a hemisphere and a right circular cylinder of equal radii and equal heights.			
	NCERT	Activity 6: To find a formula for the curved surface area of a right circular cylinder, experimentally.			
	NCERT	Activity 7: To obtain the formula for the surface area of a sphere.			
14. Statistics					
	NCERT	Activity 1: To draw histograms for classes of equal widths and varying widths.			
	NCERT	Activity 2: To find experimental probability of unit's digits of telephone numbers listed on a page selected at random of a telephone directory.			
15. Probability					
	NCERT	To find experimental probability of each			

		outcome of a die when it is thrown a large number of times.			
Projects					
	NCERT	Aryabhat - The Mathematician and Astronomer			
	NCERT	Surface Areas and Volumes of Cuboids			
	NCERT	Golden Rectangle and Golden Ratio			
	NCERT	π - World's Most Mysterious Number			