

No.	Book	Content	Mark xx / 10	Teacher Sign.	Date
1. Rational Numbers					
2. Linear Equations in One Variable					
1	NCERT	Activity 1: To solve a linear equation, say $2x + 3 = 5$			
3. Polygons					
1	Ratna Sagar	Activity 1: To verify that the sum of the measures of the exterior angles of any polygon is 360° by paper cutting and pasting.			
2	NCERT	Activity 1: To verify that a minimum of three sides are required to construct a polygon			
3	NCERT	Activity 2: To draw regular polygons, using circles			
4. Quadrilaterals					
1	Ratna Sagar	Activity 1: To verify that the sum of interior angles of a quadrilateral 360° by paper cutting and pasting			
2	NCERT	Activity 1: To make a kite by paper folding and cutting			
3	NCERT	Activity 2: To verify that the sum of four angles of a quadrilateral is 360°			
4	NCERT	Activity 3: To verify that sum of exterior angles of a triangle and quadrilateral taken in order is 360° or four right angles			
5. Special Types of Quadrilaterals					
1	Ratna Sagar	Activity 1: To make a rhombus by paper folding			
2	Ratna Sagar	Activity 2: To verify that the diagonals of a square are equal and bisect each other at right angles.			
3	NCERT	Activity 1: To make a rhombus by paper folding and cutting			
4	NCERT	Activity 2: To make a rectangle by paper folding			
5	NCERT	Activity 3: To make a square by paper folding			

6	NCERT	Activity 4: To obtain a parallelogram by paper folding			
7	NCERT	Activity 5: To verify that the opposite sides of a parallelogram are equal			
8	NCERT	Activity 6: To verify that adjacent angles of a parallelogram are supplementary			
9	NCERT	Activity 7: To verify that the diagonals of a parallelogram bisect each other			
10	NCERT	Activity 8: To verify that opposite angles of a parallelogram are equal			
6. Practical Geometry					
7. Data Handling I - Classification and Tabulation of Data					
8. Data Handling II - Bar Graphs and Histograms					
1	NCERT	Activity 1: To collect data and represent this through a bar graph			
9. Data Handling III - Pie Charts or Circle Graphs					
10. Data Handling IV - Probability					
11. Squares and Square Roots					
1	Ratna Sagar	Activity 1: To verify that the sum of the first n odd natural numbers in n^2 , i.e., $1 + 3 + 5 + 7 + \dots + n$ times = n^2 .			
2	NCERT	Activity 1: To verify Pythagoras Theorem for any right triangle			
3	NCERT	Activity 2: To verify Pythagoras Theorem using a grid paper			
4	NCERT	Activity 3: To verify Pythagoras Theorem for an isosceles right triangle			
5	NCERT	Activity 4: To verify Pythagoras Theorem for a right triangle with one angle 30°			
12. Cubes and Cube Roots					
13. Comparing Quantities I - Percentage					
14. Comparing Quantities II - Profit & Loss, Discount, Sales Tax and Vat					

15. Comparing Quantities III - Compound Interest**16. Algebraic Expressions and Identities**

1	Ratna Sagar	Activity 1: Verification of $(a + b)^2 = a^2 + 2ab + b^2$			
2	Ratna Sagar	Activity 2: Verification of $(a - b)^2 = a^2 - 2ab + b^2$			
3	NCERT	Activity 3: To add two algebraic expressions (polynomials) using different strips of cardboard.			
4	NCERT	Activity 4: To subtract a polynomial from another polynomial			
5	NCERT	Activity 5: To verify the algebraic identity : $(a + b)^2 = a^2 + 2ab + b^2$			
6	NCERT	Activity 6: To verify the algebraic identity : $(a - b)^2 = a^2 - 2ab + b^2$			
7	NCERT	Activity 7: To verify the algebraic identity: $a^2 - b^2 = (a + b)(a - b)$			
8	NCERT	Activity 8: To multiply two linear algebraic expressions (polynomials) using different strips of cardboard			

17. Visualising Solid Shapes

1	NCERT	Activity 1: To make different types of prisms and pyramids and verifying Euler's formula			
2	NCERT	Activity 2: To sketch a cube on an isometric dot paper and also to draw its oblique sketch on the square paper			

18. Mensuration I - Area of Polygons

1	Ratna Sagar	Activity 1: To show that the area of a rhombus is equal to half the product of its diagonals			
2	NCERT	Activity 1: To obtain a formula for the area of a trapezium			
3	NCERT	Activity 2: To form a cube and obtain a formula for its surface area			

4	NCERT	Activity 3: To form a cuboid and obtain a formula for its surface area			
19. Mensuration II - Surface Area and Volume of Solids					
1	Ratna Sagar	Activity 1: To verify the formula for surface area of a cuboid by activity method			
2	Ratna Sagar	Activity 2: To verify the formula for the lateral surface of a right circular cylinder by activity method			
3	NCERT	Activity 1: To obtain a formula for finding the volume of a cuboid			
4	NCERT	Activity 2: To establish a formula for the volume of a right circular cylinder			
5	NCERT	Activity 3: To obtain a formula for the curved surface area of a right circular cylinder			
20. Exponents and Powers					
21. Direct and Inverse Proportions					
1	Ratna Sagar	Activity 1: To develop the concept of inverse variation by activity method.			
22. Time and Work					
23. Factorisation					
1	NCERT	Activity 2: To factorise a polynomial, say $2x^2 + 4x$			
2	NCERT	Activity 2: To factorise a polynomial, say $x^2 + 4x + 3$			
24. Introduction to Graphs					
25. Playing with Numbers					
1	Ratna Sagar	Activity 1: To construct a Pascal Triangle			
Projects					
1	NCERT	Perimeters and Area of Rectangles			
2	NCERT	Methods for finding value of π			
3	NCERT	About an Indian mathematician and his/her contributions to mathematics.			

4	NCERT	Verification of Pythagoras theorem in different ways			
5	NCERT	Magic squares : 3×3 , 4×4 , and 5×5 .			
6	NCERT	Congruent shapes.			
7	NCERT	Exploring Pythagorean Triplets.			
8	NCERT	Drawing map of your school/locality.			
9	NCERT	Collection of data and its pictorial representation in different ways.			
10	NCERT	Decimal system versus other number systems with base 5, 8 and 2.			
11	NCERT	Divisibility Tests with special reference to 7, 11 and 13.			
12	NCERT	Verification of Euler's formula for different 3 D shapes (polyhedra).			
13	NCERT	Application of direct and inverse proportions in day to day life.			
14	NCERT	Use of double bar graph in different situations.			
15	NCERT	Hardy – Ramanujan Numbers			
16	NCERT	Use of algebraic identities in solving problems.			
17	NCERT	Areas of different polygons.			
18	NCERT	Graphs in day to day life.			