

No.	Book	Content	Mark xx / 10	Teacher Sign.	Date
<b>Semester 1</b>					
<b>1. Revision</b>					
<b>2. Large Numbers</b>					
1	Pearls	Understanding Large Numbers			
2	Pearls	Value			
3	NCERT	Activity 1: To convert expanded form of a number into its usual form			
4	NCERT	Activity 2: To find the multiples of numbers 2, 3, 4, 5,.....,9			
5	NCERT	Activity 3: Fill in the boxes by working the problems given in 'Across' and 'Down'.			
<b>3. Operations with Large Numbers</b>					
1	Pearls	Addition and Subtraction with Regrouping			
2	Pearls	Value			
3	NCERT	Activity 1: To learn number operations in a known context			
4	NCERT	Activity 2: To construct a $3 \times 3$ Magic Square of Magic Constant 15			
5	NCERT	Activity 3: To construct a $3 \times 3$ Magic Square of Magic Constant 15			
<b>4. Tests of Divisibility</b>					
1	Pearls	Understanding Divisibility Rules			
2	Pearls	Value			
<b>5. HCF and LCM</b>					
1	Pearls	Understanding Lowest Common Multiple			
2	Pearls	Value			

3	NCERT	Activity 1: To find multiples and factors			
4	NCERT	Activity 2: To find the factors of a given number (say 18)			
5	NCERT	Activity 3: To find HCF of two numbers			
6	NCERT	Activity 4: To find L.C.M. of two numbers			
7	NCERT	Activity 5: HCF by Division method			
8	NCERT	Activity 6: Lowest Common Multiple			
<b>6. Fractions</b>					
1	Pearls	Making Fractions			
2	NCERT	Activity 1: To find fractions equivalent to a given fraction			
3	NCERT	Activity 2: To find the sum of fractions with same denominators [say, $\frac{1}{5} + \frac{3}{5}$ ]			
4	NCERT	Activity 3: Exploring Fractions			
5	NCERT	Activity 4: Fractional Kit			
6	NCERT	Activity 5: To represent multiplication tables of 2 and 3 using lines and dots.			
<b>7. Perimeter, Area and Volume</b>					
1	Pearls	Exploring Volume			
2	NCERT	Activity 1: To compare the lengths of palms of students			
3	NCERT	Activity 2: To make nets of cubes and cuboids using different objects			
4	NCERT	Activity 3: To identify 2-D shapes in 3-D shapes			
5	NCERT	Activity 4: To obtain areas of different geometric figures using a Geoboard and verify the results using known formulas			
6	NCERT	Activity 5: To obtain formula for the area of a rectangle			
7	NCERT	Activity 6: To obtain a formula for area of a rhombus			

8	NCERT	Activity 7: To make a set of Tangram cutouts by paper folding and cutting and to make geometric figures using its pieces.			
9	NCERT	Activity 8: To find the area of each part of a set of Tangram pieces by counting number of complete squares and half squares.			
10	NCERT	Activity 9: To make closed shapes using match sticks.			
11	NCERT	Activity 10: To calculate the perimeter of different shapes formed by shading six adjacent squares of dimensions 1 cm each on a squared paper.			
<b>8. Decimals</b>					
1	Pearls	Understanding Decimal Numbers on the Spike Abacus			
2	Pearls	Value			
3	NCERT	Activity 1: Addition of decimals			
4	NCERT	Activity 2: To represent a decimal number using a grid paper			
<b>Semester 2</b>					
<b>1. Percentage and Average</b>					
1	Pearls	Understanding the Application of Percentage			
2	Pearls	Value			
<b>2. Ratio, Proportion and Unitary Method</b>					
1	Pearls	Understanding the concept of Ratio			
2	Pearls	Value			
<b>3. Profit and Loss</b>					
1	Pearls	Understanding Profit and Loss percent			
<b>4. Preparing Bills</b>					
1	Pearls	Value			
2	NCERT	To learn number operations in a known context			
<b>5. Symmetry, Patterns and Nets</b>					

1	Pearls	Value			
2	NCERT	Activity 1: To find the lines of symmetry of a figure (say, a rectangle) by paper folding			
3	NCERT	Activity 2: To find the order of rotational symmetry of a given figure			
4	NCERT	Activity 3: To find the lines of symmetry in the following shapes by paper folding. (i) Square (ii) Rectangle.			
<b>6. Metric Measures</b>					
1	Pearls	Understanding Capacity			
<b>7. Simple Interest</b>					
1	Pearls	Understanding Simple Interest			
<b>8. Time</b>					
1	Pearls	Knowing Time			
2	Pearls	Value			
3	NCERT	Activity 1: To make the face of a clock by paper folding.			
4	NCERT	Activity 2: To observe hands of a clock at different times in a day and record types of angles formed in each case between the two hands.			
5	NCERT	Activity 3: To observe hands of the clock at different time in a day and record four observations each of the following (a) right angle between hands of the clock (b) angle less than a right angle between hands of the clock. (c) angle more than a right angle between hands of the clock.			
<b>9. Circles</b>					
1	Pearls	Understanding Concentric Circles			
2	Pearls	Value			
3	NCERT	Activity 1: To make a 'protractor' by paper folding			

4	NCERT	Activity 2: To find the ratio of circumference and diameter of a circle			
5	NCERT	Activity 3: To obtain a formula for the area of a circle			
6	NCERT	Activity 4: To draw regular polygons, using circles			
7	NCERT	Activity 5: Area of a Circle			
8	NCERT	Activity 6: shortest distance between two lines			
<b>10. Lines and Angles</b>					
1	Pearls	Understanding Angles			
2	NCERT	Activity 1: To draw a perpendicular to a line from a point not on it, by paper folding			
3	NCERT	Activity 2: To verify that when two lines intersect, vertically opposite angles are equal			
4	NCERT	Activity 3: To verify that vertically opposite angles are equal			
5	NCERT	Activity 4: Measurement of Angles			
6	NCERT	Activity 5: (a) To identify a right angle, angle less than a right angle and angle more than a right angle using body parts and to draw them using stick drawings. (b) Write the word mathematics using straight lines and observe the number of right angles, number of angles more than a right angle and number of angles less than a right angle. (c) To make a degree clock by paper folding.			
7	NCERT	Activity 6: To identify a right angle, an angle less than a right angle and an angle more than a right angle using body postures and to draw them using stick drawings.			
8	NCERT	Activity 7: Write the word MATHEMATICS using line segments and observe the number of right angles, number of angles more than a right angle and number of angles less than a right angle.			
<b>11. Graphs</b>					

1	Pearls	Value			
2	NCERT	Activity 1: To collect data and represent this through a bar graph			