SYLLABUS

1. SHAPES AND SPATIAL UNDERSTANDING

- Draws intuitively the plane, elevation and side view, top view, front view of simple (knowing) objects.
- Study of the net of a cuboid and its shape.
- Creates shapes using other shapes.
- Creates shapes through paper folding, paper cutting and understood intutively.
- Identifies 2-D shapes (square rectangle, triangle, circle).
- Makes shapes using straight lines and curves.
- Tiles, a given region using a tile of a given shape.
- Distinguishes between shapes that tile and that do not tile.
- Traces circle, rectangle, square using with different objects.

2. NUMBERS

- Reads and writes 3-digit numbers.
- Understands place value in 3-digit numbers.
- Expands a number using place values.
- Counts in different ways (starting from any number).
- Compares numbers.
- Forms greatest and smallest numbers using given digits.

3 to 5. ADDITION, SUBTRACTION & USING ADDITION AND SUBTRACTION

- Adds and subtracts numbers by writing them vertically in the following two cases: without regrouping, with regrouping.
- Uses the place value in standard algorithm of addition and subtraction.
- Horizontal Addition and subtraction.
- Solves addition and subtraction problems in different situations presented through pictures and stories.
- Frame problems for addition and subtraction facts.

SCERT TALANGANA

- Estimates the sum and difference of two given numbers.
- Adds and subtracts single digit numbers and two digit numbers mentally.
- Doubles two digit numbers mentally (result not exceeding two digits).

6. MULTIPLICATION

- Explains the meaning of multiplication (as repeated addition).
- Identifies and uses the sign of multiplication.
- Constructs the multiplication tables of 2, 3, 4, 5 and 10.
- Uses multiplication facts in situations.
- Construct tables for 6, 7, 8, 9.
- Multiplies two digit numbers by single digit number using standard algorithm and Lattice multiplication algorithm.

7. DIVISION

- Explains the meaning of division from context of equal grouping and sharing.
- Relates division with multiplication.
- Completes division facts (Double digit by single digit) : by repeated subtraction, by grouping, by using multiplication tables.

8. MEASUREMENT (Length, Weight, Capacity)

Length

- Appreciates the need for a standard unit.
- Measures length using appropriate standard units of length by choosing centimeters.
- Estimates the length of given object in standard units and verifies by measuring.
- Uses a scale.

Weight

- Weighs objects using 1kg.
- Appreciates the conservation of weight.

SCERT TALANGANA

तेलंगाणा सरकार द्वारा निशुल्क वितरण 2020-21

Capacity

- Measures and compares the capacity of different containers in terms of a litre.
- Appreciates the conservation of capacity.

9. TIME

- Reads a calendar to find a particular day and date.
- Reads the time correct to the hour.
- Sequences the events chronologically.

10. DAY TO DAY MATHS

(Money, length, weight, capacity and time)

- Adds and subtracts amounts using column addition, and subtraction with and without regrouping.
- Makes rate charts (upto ₹ 999) bills.
- Solving real life problems involving money, length, weight, time and capacity.

11. DATA HANDLING

- Records data using tally marks.
- Collects the data and represents in terms of pictograph choosing appropriate scale and unit for display through pictographs.
- Draw conclusions from the data by discussing with the teacher.

12. PATTERNS

- Identify simple symmetrical shapes and patterns.
- Make patterns and designs from straight lines and other geometrical shapes.
- Partitions a number in different ways (only 2 partitions).
- Identify patterns in hissurroundings.
- Identify patterns in multiplication tables of 2, 5, and 10.

SCERT TALANGANA

ACADEMIC STANDARDS

Content	Problem Solving	Reasoning Proof	Communication	Connections	Representation
Numbers operations (addition, subtraction, multiplication and division)	• Counts from any number by using groups as 100s. 10s, ones. • Can complete given sequence of numbers up to 999. • Able to find the sum of two numbers by joining, combining by grouping, regrouping up to 999. • Demonstrates the understanding of the addition, subtraction of the numbers horizontally, vertically up to 3 digit numbers. • Can multiply two digit numbers with one digit number. • Solves the problems on division (divisor is single digit, without remainder).	• Estimates the number of objects in a group upto 50. • Compares the numbers upto 999 based on place value. • Can write the given numbers in ascending, desinding orders. • Can form the greatest and smallest two digit and three digit numbers with, and without; repetition of given digits. • Determines the reasonableness of calculated answers in addition, subtraction. • Creates patterns using numbers involving addition and subtraction upto 50. • Identifies errors in solving addition, subtraction and multiplication.	• Able to read and write 3 digit numbers. • Comparing any 3 digit numbers using symbols <, >, =. • Round the numbers upto the nearest 10s and 100s.	• Applies addition, subtraction, simple multiplication in dialy life situation. • Uses three digit numbers (school strength, purchasing articles, pay of workers, etc)	• Represents the numbers up to 999 as numbers using cubical blocks

SCERT TALANGANA

Content	Problem Solving	Reasoning Proof	Communication	Connections	Representation
Shapes and Spatial under-standing	• Sorts objects using character-istics of shapes. • Identify the object by observing different view. • Identify basic 2-D shapes like square, rect-angle, triangle and circle. • Distinguishes between the shapes that tile and do not tile. • Identifies objects for tracing circles, rectangle, squares.	• Can read simple diagrams and maps. • Describes rela-tionship between shapes of cuboids and the net of cuboids. • Able to read halves in a whole. • Gives reasons for tiles of a given region using a given tile shape.			• Can draw 2-D shapes on grid paper. • Can devide in to two halves and represents halves in a whole. • Identify different shapes using different colours in to different shapes.
Day to day maths (Money, length, weight, capatity, time)	• Adds and subtracts amounts without regrouping in written and also mentally. • Prepares rate charts and bills.			• able to do simple problems connecting money with length, weight and daily life situations.	
Mea-sure-ment (length, weight capac-ity)	• Measures the length, weight and capacity using suitable apparatus.	• Estimates the length of given objects like table, blackboard etc. in standard units(cm) • Estimates weight, and capacity in non standard units	• Identifies need for a standard unit for measuing lengths, capac-ity, weight		
Data handling	• Collects the suitable data for the tabulating		• Comments on the data		• Represent the data in tabular form

SCERT TALANGANA