

Annual Syllabus

Class-VI (2023-24)

Subject: Mathematics

Chapter Name	Content	Learning Outcomes	Suggested Activities
Chapter-1 Knowing our numbers	<p>Class IV–Introduction- Comparing numbers, Numbers in practice (lakhs), (Use Worksheet No. 9, 11, 37, 61)</p> <p>Class V– Introduction- Comparing numbers, Big number in practice (Crore) (Use Worksheet No. 4, 7, 9, 40, 92)</p> <p>Class VI– Introduction, Comparing Numbers, Large numbers in practice, (Use Worksheet No.1, 3, 4, 5, 9, 10)</p>	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Compare and form numbers using different digits. • Differentiate between Indian system and International system of numeration. • Solve daily life situation problems involving addition, multiplication, subtraction, and division. 	<ul style="list-style-type: none"> • Find the number of students in all sections of class. • Count in groups to understand multiply. Distribute the things in groups to understand division. • Express the pin-code of your city/village in Indian & International System. • Write in words: <ul style="list-style-type: none"> • Your birth-year • Your house number • Any vehicle number
Chapter-3 Playing with Numbers	<p>Class IV– Tables and Shares</p> <p>Class V– Multiples and Factors</p> <p>Class VI– Introduction, Factors and Multiples, Prime and Composite Numbers, Tests for Divisibility of Numbers, Common factors and Common Multiples (Use Worksheet No. 4)</p>	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Classify numbers as prime, composite, even and odd. • differentiate between factors and multiples • Check the divisibility of a given number by a number. • Identify common factors and common multiples of given numbers 	<ul style="list-style-type: none"> • Prepare sieve of Eratosthenes • Puzzles and Riddles based on <ul style="list-style-type: none"> • common factors and common multiples • Even & odd numbers • Prime & composite numbers • Calendar activity etc.
Chapter-4 Basic Geometric Ideas	<p>Class V– Angles, Line (Use Worksheet No. 97, 100, 106, 110, 111)</p> <p>Class VI– Introduction, Points, A Line Segment, A Line, Intersecting Lines, Parallel Lines, Ray, Curves, Polygons, Angles. (Use Worksheet No. 34)</p>	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Identify geometrical figures like point, ray, line, line segment, parallel line, intersecting lines in the surroundings and give examples. • Identify parts of different polygons in their surroundings. 	<ul style="list-style-type: none"> • Examples of line and line segment from daily life. • Identify three-sided and four-sided polygons from surroundings. • Discussion on the topic of light of sun and candle.

- The above syllabus is to be completed for Mid-Term Examination by 15th September, 2023.
- Mental Math & Math Lab Activities
- Revision of syllabus for term examination

MID TERM EXAMINATION

<p>Chapter-5 Understanding Elementary Shapes</p>	<p>Class V–Measuring of line-segment, Angles- Right, Straight, More than 90°, Less than 90°, 3D shapes (Use Worksheet No. 97, 100, 103, 106, 109, 110, 111)</p> <p>Class VI–Introduction, Measuring Line Segments, Angles-Right and Straight, Angles-Acute, Obtuse and Reflex, Measuring Angles, Perpendicular Lines, Classification of Triangles, Quadrilaterals, Polygons (Use Worksheet No. 29, 31, 32, 33)</p>	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Classify the angles as acute, obtuse, reflex, straight, and complete, measure and draw them. • Identify the triangles on the basis of sides and angles. • Identify different quadrilaterals as square, rectangle, parallelogram, rhombus and trapezium. 	<ul style="list-style-type: none"> • Examples of different geometric shapes from surroundings like <ul style="list-style-type: none"> • shape of honeycomb • electric pole on a street • traffic sign boards • 3D objects etc.
<p>Chapter-6 Integers</p>	<p>*Class IV– same as Chapter 1 (Use Worksheet No. 9, 11, 37, 61)</p> <p>*Class V– same as Chapter 1 (Use Worksheet No. 4, 7, 9)</p> <p>Class VI– Introduction, Integers- Representation on Number Line, Ordering of Integers, Addition of Integers, and Subtraction of Integers with the help of a Number Line. (Use Worksheet No. 14, 15, 16, 17)</p>	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Identify the integers and represent it on number line. • Compare the different integers and write integers in orders. 	<ul style="list-style-type: none"> • Demonstrate integers with the help of stairs • Find temperature of Kashmir and Delhi in summer and winter and compare it
<p>Chapter-7 Fractions</p>	<p>Class IV– Halves and Quarters</p> <p>Class V– Parts and Wholes (Use Worksheet No.130, 135, 141, 143)</p> <p>Class VI– Introduction, A Fraction, Fraction on Number Line, Proper Fractions, Improper and Mixed Fractions, Equivalent Fractions, Simplest Form of a Fraction, Like Fractions, Comparing Fractions, Addition and Subtraction of Fractions. (Use Worksheet No. 18, 19, 20, 21, 22, 23)</p>	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Represent fraction on number line and shade the given portion as fraction. • Identify fractions as proper, improper, mixed, equivalent and like fractions. • Compare, add and subtract fractions and solve daily life problems involving fractions. 	<ul style="list-style-type: none"> • Divide classroom into parts and write fraction • Paper folding activities • Role play

Chapter-8 Decimals	<p>Class V– Addition and Subtraction of Decimals</p> <p>Class VI– Introduction, Comparing Decimals, Using Decimals, Addition of Numbers with Decimals, Subtraction of Decimals.</p>	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Identify and compare decimals. • Solve daily life problems involving decimals. 	<ul style="list-style-type: none"> • Use of graph paper to understand decimal • Daily life examples like converting rupee into paisa, cm into metre etc.
Chapter-9 Data Handling	<p>Class IV– Smart chart</p> <p>Class V– Smart chart (Use Worksheet No. 14, 16, 99, 102, 105)</p> <p>Class VI– Introduction, Recording Data, Organisation of data, Pictograph, Interpretation of a Pictograph.</p>	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Collect information and prepare data. • Learn about tally marks. • Draw and interpret pictograph. 	<ul style="list-style-type: none"> • Collect information about favourite colour/fruits/sweet/ games etc. of your classmates • Prepare a table of medals won by India in different international events like commonwealth games, Olympic etc. • Record temperature of India in different weathers
Chapter-12 Ratio and Proportion	<p>Class IV– Jugs & mugs, Halves and quarters</p> <p>Class VI– Introduction, Ratio, Proportion, Unitary Method</p>	<p>The learner will be able to:</p> <ul style="list-style-type: none"> • Compare quantities using ratio and check its proportionality. • Solve daily life problems using unitary method. 	<ul style="list-style-type: none"> • Find the ratio of students present to absent students in your class on a particular day • Explore ratio of length & breadth of Indian flag • Ratio of circumference to the diameter of a circle

- The whole syllabus is to be completed for Annual Examination by 31st January, 2024.
- Mental Math & Math Lab Activities
- Revision of syllabus for Annual Examination

ANNUAL EXAMINATION

Note: The above said syllabus is for assessment purpose only and remaining topics/chapters may be taught as Subject Learning Enrichment.