

# Syllabus Indicator and Exam Portion

## CBSE – 2023-24

**Subject: Mathematics**

**Grade: V**

PHASE 1			
Ch. No.	Chapter Name	Subtopics	PT1 portion Total Marks: 20      Duration: 45 minutes
1	Numbers	<ul style="list-style-type: none"> <li>7-Digit Numbers</li> <li>8- Digit Numbers</li> <li>9-Digit Numbers</li> <li>Face Value</li> <li>Place Value</li> <li>Expanded Form of Number</li> <li>Expressing Large Numbers on the Abacus</li> <li>Successor of a Number</li> <li>Predecessor of a Number</li> <li>Comparing the Numbers</li> <li>Ascending Order and Descending Order</li> <li>The Biggest Number</li> <li>The Smallest Number</li> <li>International System of Numeration</li> <li>Comparison of Two Systems of Numeration</li> <li>Roman System of Numerals</li> </ul>	<ul style="list-style-type: none"> <li>7-Digit Numbers</li> <li>8- Digit Numbers</li> <li>9-Digit Numbers</li> <li>Face Value</li> <li>Place Value</li> <li>Expanded Form of Number</li> <li>Expressing Large Numbers on the Abacus</li> <li>Successor of a Number</li> <li>Predecessor of a Number</li> <li>Comparing the Numbers</li> <li>Ascending Order and Descending Order</li> <li>The Biggest Number</li> <li>The Smallest Number</li> <li>International System of Numeration</li> <li>Comparison of Two Systems of Numeration</li> <li>Roman System of Numerals</li> </ul>
2	Operations on Numbers	<ul style="list-style-type: none"> <li>Addition</li> <li>Properties of Addition</li> <li>Addition without Regrouping</li> <li>Addition with Regrouping</li> <li>Subtraction</li> <li>Properties of Subtraction</li> <li>Subtraction without Borrowing</li> <li>Subtraction with Borrowing</li> <li>Multiplication</li> <li>Properties of Multiplication</li> <li>Multiplication of 4-Digit Number by a 2-Digit Number</li> <li>Multiplication of 3-Digit Number by a 3-Digit Number</li> <li>Multiplication of 4-Digit Number by a 3-Digit Number</li> </ul>	<ul style="list-style-type: none"> <li>Addition</li> <li>Properties of Addition</li> <li>Addition without Regrouping</li> <li>Addition with Regrouping</li> <li>Subtraction</li> <li>Properties of Subtraction</li> <li>Subtraction without Borrowing</li> <li>Subtraction with Borrowing</li> <li>Multiplication</li> <li>Properties of Multiplication</li> <li>Multiplication of 4-Digit Number by a 2-Digit Number</li> <li>Multiplication of 3-Digit Number by a 3-Digit Number</li> <li>Multiplication of 4-Digit Number by a 3-Digit Number</li> </ul>

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		<ul style="list-style-type: none"> <li>▪ Urdhava Tiryak Sutra</li> <li>▪ Division</li> <li>▪ Properties of Division</li> <li>▪ Division by 10, 100 and 1000</li> <li>▪ Division by a 2-Digit Number</li> <li>▪ Division by a 3-Digit Number</li> <li>▪ DMAS Rule</li> <li>▪ Unitary Method</li> </ul>	<ul style="list-style-type: none"> <li>▪ Division</li> <li>▪ Properties of Division</li> <li>▪ Division by 10, 100 and 1000</li> <li>▪ Division by a 2-Digit Number</li> <li>▪ Division by a 3-Digit Number</li> <li>▪ DMAS Rule</li> <li>▪ Unitary Method</li> </ul>
6	Geometry	<ul style="list-style-type: none"> <li>▪ Basic Geometrical Figures</li> <li>▪ Angle</li> <li>▪ Measuring the Angle using Protractor</li> <li>▪ Draw an Angle using Protractor</li> </ul>	<ul style="list-style-type: none"> <li>▪ Basic Geometrical Figures</li> <li>▪ Angle</li> <li>▪ Measuring the Angle using Protractor</li> <li>▪ Draw an Angle using Protractor</li> </ul>

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PHASE 2			
Ch. No.	Chapter Name	Subtopics	<div> <div>HYE portion</div> <div> <b>Total Marks: 50</b> <b>Duration: 2 hours</b> </div> </div>
7	Maps	<ul style="list-style-type: none"> <li>Reading the Map</li> <li>Scale of a Map</li> <li>How to scale a drawing?</li> </ul>	<b>PT1 portion is included</b> <ul style="list-style-type: none"> <li>Reading the Map</li> <li>Scale of a Map</li> <li>How to scale a drawing?</li> </ul>
3	Factors and Multiples	<ul style="list-style-type: none"> <li>Divisibility Tests</li> <li>Prime and Composite numbers</li> <li>The Sieve of Eratosthenes</li> <li>Prime Factorisation</li> <li>Highest Common Factor (HCF)</li> <li>Finding HCF by Prime Factorisation</li> <li>Multiples of a Number</li> <li>Lowest Common Multiple (LCM)</li> <li>Finding LCM using the Prime Factorisation Method</li> <li>Finding LCM using the Common Division Method</li> <li>Relation between HCF and LCM of Two Numbers</li> </ul>	<ul style="list-style-type: none"> <li>Divisibility Tests</li> <li>Prime and Composite numbers</li> <li>Prime Factorisation</li> <li>Highest Common Factor (HCF)</li> <li>Finding HCF by Prime Factorisation</li> <li>Multiples of a Number</li> <li>Lowest Common Multiple (LCM)</li> <li>Finding LCM using the Prime Factorisation Method</li> <li>Finding LCM using the Common Division Method</li> <li>Relation between HCF and LCM of Two Numbers</li> </ul>
4	Fractions	<ul style="list-style-type: none"> <li>Equivalent Fractions</li> <li>Lowest Form (Simplest Form) of a Fraction</li> <li>Comparing Like Fractions</li> <li>Comparing Unlike Fractions</li> <li>Comparing Unlike Fractions with the Same Numerator</li> <li>Addition of Fractions</li> <li>Addition of Like Fractions</li> <li>Addition of Unlike Fractions</li> <li>Subtraction of Fractions</li> <li>Subtraction of Like Fractions</li> <li>Subtraction of Unlike Fractions</li> <li>Multiplication of Fraction with a Whole Number</li> <li>Multiply Two Fractions</li> <li>Reciprocal of Fraction</li> <li>Divisions of Fractions</li> </ul>	<ul style="list-style-type: none"> <li>Equivalent Fractions</li> <li>Lowest Form (Simplest Form) of a Fraction</li> <li>Comparing Like Fractions</li> <li>Comparing Unlike Fractions</li> <li>Comparing Unlike Fractions with the Same Numerator</li> <li>Addition of Fractions</li> <li>Addition of Like Fractions</li> <li>Addition of Unlike Fractions</li> <li>Subtraction of Fractions</li> <li>Subtraction of Like Fractions</li> <li>Subtraction of Unlike Fractions</li> <li>Multiplication of Fraction with a Whole Number</li> <li>Multiply Two Fractions</li> <li>Reciprocal of Fraction</li> <li>Divisions of Fractions</li> </ul>
8	Patterns	<ul style="list-style-type: none"> <li>Patterns Using Shapes</li> <li>Patterns Using Figures</li> <li>Patterns Using Numbers</li> </ul>	<ul style="list-style-type: none"> <li>Patterns Using Shapes</li> <li>Patterns Using Figures</li> <li>Patterns Using Numbers</li> </ul>

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## CBSE – 2023-24

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PHASE 3			
Ch. No.	Chapter Name	Subtopics	PT2 portion
			<b>Total Marks: 20</b> <b>Duration: 45 minutes</b>
5	Decimal Numbers	<ul style="list-style-type: none"> <li>Equivalent Decimal Numbers</li> <li>Like and Unlike Decimal Numbers</li> <li>Converting Unlike Decimal Numbers into Like Decimal Numbers</li> <li>Comparing Decimal Numbers</li> <li>Ordering of Decimal Numbers</li> <li>Addition of Decimal Numbers</li> <li>Subtraction of Decimal Numbers</li> <li>Multiplication of a Decimal Number by a Whole Number</li> <li>Multiplication of a Decimal Number by 10,100 and 1000</li> <li>Division of Decimal Number by a Whole Number</li> <li>Division of a Decimal Number by 10,100 and 1000</li> </ul>	<ul style="list-style-type: none"> <li>Equivalent Decimal Numbers</li> <li>Like and Unlike Decimal Numbers</li> <li>Converting Unlike Decimal Numbers into Like Decimal Numbers</li> <li>Comparing Decimal Numbers</li> <li>Ordering of Decimal Numbers</li> <li>Addition of Decimal Numbers</li> <li>Subtraction of Decimal Numbers</li> <li>Multiplication of a Decimal Number by a Whole Number</li> <li>Multiplication of a Decimal Number by 10,100 and 1000</li> <li>Division of Decimal Number by a Whole Number</li> <li>Division of a Decimal Number by 10,100 and 1000</li> </ul>
9	Measurement	<ul style="list-style-type: none"> <li>Measurement of Length</li> <li>Converting Length from One Unit to Another</li> <li>Addition of Lengths</li> <li>Subtraction of Lengths</li> <li>Multiplication of Length by a Number</li> <li>Multiplication of Length by a Number (Alternate Method)</li> <li>Measurement of Mass (Weight)</li> <li>Converting Weight from One Unit to Another</li> <li>Addition of Weights</li> <li>Subtraction of Weights</li> <li>Multiplication of Weight by Number</li> <li>Multiplication of Weight by a Number (Alternate Method)</li> <li>Division of Weight</li> <li>Measurement of Capacity</li> <li>Converting Capacity from One Unit to Another</li> <li>Addition of Capacities</li> <li>Subtraction of Capacities</li> <li>Multiplication of Capacity by a Number</li> <li>Multiplication of Capacity by a Number (Alternate Method)</li> <li>Division of Weight</li> </ul>	<ul style="list-style-type: none"> <li>Measurement of Length</li> <li>Converting Length from One Unit to Another</li> <li>Addition of Lengths</li> <li>Subtraction of Lengths</li> <li>Multiplication of Length by a Number</li> <li>Multiplication of Length by a Number (Alternate Method)</li> <li>Measurement of Mass (Weight)</li> <li>Converting Weight from One Unit to Another</li> <li>Addition of Weights</li> <li>Subtraction of Weights</li> <li>Multiplication of Weight by Number</li> <li>Multiplication of Weight by a Number (Alternate Method)</li> <li>Division of Weight</li> <li>Measurement of Capacity</li> <li>Converting Capacity from One Unit to Another</li> <li>Addition of Capacities</li> <li>Subtraction of Capacities</li> <li>Multiplication of Capacity by a Number</li> <li>Multiplication of Capacity by a Number (Alternate Method)</li> <li>Division of Weight</li> </ul>

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PHASE 4			
Ch. No.	Chapter Name	Subtopics	YE portion Total Marks: 50      Duration: 2 hours
10	Perimeter, Area and Volume	<ul style="list-style-type: none"> <li>Perimeter</li> <li>Area</li> <li>Volume of a Solid</li> </ul>	<b>PT2 portion is included</b> <ul style="list-style-type: none"> <li>Perimeter</li> <li>Area</li> <li>Volume of a Solid</li> </ul>
11	Money	<ul style="list-style-type: none"> <li>Cost Price and Selling Price; Profit or Loss</li> <li>Finding Cost Price (CP)</li> <li>Finding Selling Price (SP)</li> </ul>	<ul style="list-style-type: none"> <li>Cost Price and Selling Price; Profit or Loss</li> <li>Finding Cost Price (CP)</li> <li>Finding Selling Price (SP)</li> </ul>
12	Time	<ul style="list-style-type: none"> <li>Adding Time</li> <li>When time is given in Minutes and Seconds</li> <li>Subtraction of Time</li> <li>Calculating the Time</li> </ul>	<ul style="list-style-type: none"> <li>Adding Time</li> <li>When time is given in Minutes and Seconds</li> <li>Subtraction of Time</li> <li>Calculating the Time</li> </ul>
13	Temperature	<ul style="list-style-type: none"> <li>Temperature</li> <li>Scales for Measuring Temperature</li> <li>Conversion from Fahrenheit (F) to Celsius (C)</li> <li>Conversion from Celsius (C) to Fahrenheit (F)</li> <li>Kelvin Temperature Scale</li> </ul>	<ul style="list-style-type: none"> <li>Temperature</li> <li>Scales for Measuring Temperature</li> <li>Conversion from Fahrenheit (F) to Celsius (C)</li> <li>Conversion from Celsius (C) to Fahrenheit (F)</li> <li>Kelvin Temperature Scale</li> </ul>
14	Data Handling	<ul style="list-style-type: none"> <li>Bar Graph</li> </ul>	<ul style="list-style-type: none"> <li>Bar Graph</li> </ul>