

**SYLLABUS INDICATOR AND EXAM PORTION**  
**CBSE – 2024-25**

**Subject: Mathematics**

**Grade: VI**

PHASE 1			
Ch. No.	Chapter Name	Subtopics	PT1 portion Total Marks: 40      Duration: 1 hour 30 minutes
1	Knowing Our Numbers	<ul style="list-style-type: none"> <li>▪ 1.1 Introduction</li> <li>▪ 1.2 Comparing Numbers               <ul style="list-style-type: none"> <li>○ 1.2.1 How many numbers can you make?</li> <li>○ 1.2.2 Shifting digits</li> <li>○ 1.2.3 Introducing 10,000</li> <li>○ 1.2.4 Revisiting place value</li> <li>○ 1.2.5 Introducing 1,00,000</li> <li>○ 1.2.6 Larger numbers</li> <li>○ 1.2.7 An aid in reading and writing large numbers</li> </ul> </li> <li>▪ 1.3 Large Numbers in Practice</li> </ul>	<ul style="list-style-type: none"> <li>▪ 1.1 Introduction</li> <li>▪ 1.2 Comparing Numbers               <ul style="list-style-type: none"> <li>○ 1.2.1 How many numbers can you make?</li> <li>○ 1.2.2 Shifting digits</li> <li>○ 1.2.3 Introducing 10,000</li> <li>○ 1.2.4 Revisiting place value</li> <li>○ 1.2.5 Introducing 1,00,000</li> <li>○ 1.2.6 Larger numbers</li> <li>○ 1.2.7 An aid in reading and writing large numbers</li> </ul> </li> <li>▪ 1.3 Large Numbers in Practice</li> </ul>
2	Whole Numbers	<ul style="list-style-type: none"> <li>▪ 2.1 Introduction</li> <li>▪ 2.2 Whole Numbers</li> <li>▪ 2.3 The Number Line</li> </ul>	<ul style="list-style-type: none"> <li>▪ 2.1 Introduction</li> <li>▪ 2.2 Whole Numbers</li> <li>▪ 2.3 The Number Line</li> </ul>
4	Basic Geometrical Ideas	<ul style="list-style-type: none"> <li>▪ 4.1 Introduction</li> <li>▪ 4.2 Points</li> <li>▪ 4.3 A Line Segment</li> <li>▪ 4.4 A Line</li> <li>▪ 4.5 Intersecting Lines</li> <li>▪ 4.6 Parallel Lines</li> <li>▪ 4.7 Ray</li> <li>▪ 4.8 Curves</li> <li>▪ 4.9 Polygons</li> <li>▪ 4.10 Angles</li> </ul>	<ul style="list-style-type: none"> <li>▪ 4.1 Introduction</li> <li>▪ 4.2 Points</li> <li>▪ 4.3 A Line Segment</li> <li>▪ 4.4 A Line</li> <li>▪ 4.5 Intersecting Lines</li> <li>▪ 4.6 Parallel Lines</li> <li>▪ 4.7 Ray</li> <li>▪ 4.8 Curves</li> <li>▪ 4.9 Polygons</li> <li>▪ 4.10 Angles</li> </ul>
9	Data Handling	<ul style="list-style-type: none"> <li>▪ 9.1 Introduction</li> <li>▪ 9.2 Recording Data</li> <li>▪ 9.3 Organisation of Data</li> <li>▪ 9.4 Pictograph</li> <li>▪ 9.5 Interpretation of a Pictograph</li> </ul>	<ul style="list-style-type: none"> <li>▪ 9.1 Introduction</li> <li>▪ 9.2 Recording Data</li> <li>▪ 9.3 Organisation of Data</li> <li>▪ 9.4 Pictograph</li> <li>▪ 9.5 Interpretation of a Pictograph</li> </ul>

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PHASE 2			
Ch. No.	Chapter Name	Subtopics	HYE portion Total Marks: 80 Duration: 3 hours
			PT1 portion is included
3	Playing with Numbers	<ul style="list-style-type: none"> <li>▪ 3.1 Introduction</li> <li>▪ 3.2 Factors and Multiples</li> <li>▪ 3.3 Prime and Composite Numbers</li> <li>▪ 3.4 Tests for Divisibility of Numbers</li> <li>▪ 3.5 Common Factors and Common Multiples</li> <li>▪ 3.6 Prime Factorisation</li> <li>▪ 3.7 Highest Common Factor</li> <li>▪ 3.8 Lowest Common Multiple</li> <li>▪ 3.9 Some Problems on HCF and LCM</li> </ul>	<ul style="list-style-type: none"> <li>▪ 3.1 Introduction</li> <li>▪ 3.2 Factors and Multiples</li> <li>▪ 3.3 Prime and Composite Numbers</li> <li>▪ 3.4 Tests for Divisibility of Numbers</li> <li>▪ 3.5 Common Factors and Common Multiples</li> <li>▪ 3.6 Prime Factorisation</li> <li>▪ 3.7 Highest Common Factor</li> <li>▪ 3.8 Lowest Common Multiple</li> <li>▪ 3.9 Some Problems on HCF and LCM</li> </ul>
5	Understanding Elementary Shapes	<ul style="list-style-type: none"> <li>▪ 5.1 Introduction</li> <li>▪ 5.2 Measuring Line Segments</li> <li>▪ 5.3 Angles – ‘Right’ and ‘Straight’</li> <li>▪ 5.4 Angles – ‘Acute’, ‘Obtuse’ and ‘Reflex’</li> <li>▪ 5.5 Measuring Angles</li> <li>▪ 5.6 Perpendicular Lines</li> <li>▪ 5.7 Classification of Triangles</li> <li>▪ 5.8 Quadrilaterals</li> <li>▪ 5.9 Polygons</li> </ul>	<ul style="list-style-type: none"> <li>▪ 5.1 Introduction</li> <li>▪ 5.2 Measuring Line Segments</li> <li>▪ 5.3 Angles – ‘Right’ and ‘Straight’</li> <li>▪ 5.4 Angles – ‘Acute’, ‘Obtuse’ and ‘Reflex’</li> <li>▪ 5.5 Measuring Angles</li> <li>▪ 5.6 Perpendicular Lines</li> <li>▪ 5.7 Classification of Triangles</li> <li>▪ 5.8 Quadrilaterals</li> <li>▪ 5.9 Polygons</li> </ul>
10	Mensuration	<ul style="list-style-type: none"> <li>▪ 10.1 Introduction</li> <li>▪ 10.2 Perimeter                             <ul style="list-style-type: none"> <li>○ 10.2.1 Perimeter of a rectangle</li> <li>○ 10.2.2 Perimeter of regular shapes</li> </ul> </li> <li>▪ 10.3 Area                             <ul style="list-style-type: none"> <li>○ 10.3.1 Area of a rectangle</li> <li>○ 10.3.2 Area of a square</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ 10.1 Introduction</li> <li>▪ 10.2 Perimeter                             <ul style="list-style-type: none"> <li>○ 10.2.1 Perimeter of a rectangle</li> <li>○ 10.2.2 Perimeter of regular shapes</li> </ul> </li> <li>▪ 10.3 Area                             <ul style="list-style-type: none"> <li>○ 10.3.1 Area of a rectangle</li> <li>○ 10.3.2 Area of a square</li> </ul> </li> </ul>

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PHASE 3			
Ch. No.	Chapter Name	Subtopics	PT2 portion Total Marks: 40 Duration: 1 hour 30 minutes
6	Integers	<ul style="list-style-type: none"> <li>▪ 6.1 Introduction</li> <li>▪ 6.1.1 Tag me with a sign</li> <li>▪ 6.2 Integers               <ul style="list-style-type: none"> <li>○ 6.2.1 Representation of integers on a number line</li> <li>○ 6.2.2 Ordering of integers</li> </ul> </li> <li>▪ 6.3 Addition of Integers               <ul style="list-style-type: none"> <li>○ 6.3.1 Addition of integers on a number line</li> </ul> </li> <li>▪ 6.4 Subtraction of Integers with the help of a Number Line</li> </ul>	<ul style="list-style-type: none"> <li>▪ 6.1 Introduction</li> <li>▪ 6.1.1 Tag me with a sign</li> <li>▪ 6.2 Integers               <ul style="list-style-type: none"> <li>○ 6.2.1 Representation of integers on a number line</li> <li>○ 6.2.2 Ordering of integers</li> </ul> </li> <li>▪ 6.3 Addition of Integers               <ul style="list-style-type: none"> <li>○ 6.3.1 Addition of integers on a number line</li> </ul> </li> <li>▪ 6.4 Subtraction of Integers with the help of a Number Line</li> </ul>
7	Fractions	<ul style="list-style-type: none"> <li>▪ 7.1 Introduction</li> <li>▪ 7.2 A Fraction</li> <li>▪ 7.3 Fraction on the Number Line</li> <li>▪ 7.4 Proper Fractions</li> <li>▪ 7.5 Improper and Mixed Fractions</li> <li>▪ 7.6 Equivalent Fractions</li> <li>▪ 7.7 Simplest Form of a Fraction</li> <li>▪ 7.8 Like Fractions</li> <li>▪ 7.9 Comparing Fractions               <ul style="list-style-type: none"> <li>○ 7.9.1 Comparing like fractions</li> <li>○ 7.9.2 Comparing unlike fractions</li> </ul> </li> <li>▪ 7.10 Addition and Subtraction of Fractions               <ul style="list-style-type: none"> <li>○ 7.10.1 Adding or subtracting like fractions</li> <li>○ 7.10.2 Adding and subtracting fractions</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ 7.1 Introduction</li> <li>▪ 7.2 A Fraction</li> <li>▪ 7.3 Fraction on the Number Line</li> <li>▪ 7.4 Proper Fractions</li> <li>▪ 7.5 Improper and Mixed Fractions</li> <li>▪ 7.6 Equivalent Fractions</li> <li>▪ 7.7 Simplest Form of a Fraction</li> <li>▪ 7.8 Like Fractions</li> <li>▪ 7.9 Comparing Fractions               <ul style="list-style-type: none"> <li>○ 7.9.1 Comparing like fractions</li> <li>○ 7.9.2 Comparing unlike fractions</li> </ul> </li> <li>▪ 7.10 Addition and Subtraction of Fractions               <ul style="list-style-type: none"> <li>○ 7.10.1 Adding or subtracting like fractions</li> <li>○ 7.10.2 Adding and subtracting fractions</li> </ul> </li> </ul>
11	Algebra	<ul style="list-style-type: none"> <li>▪ 11.1 Introduction</li> <li>▪ 11.2 Matchstick Patterns</li> <li>▪ 11.3 The Idea of a Variable</li> <li>▪ 11.4 More Matchstick Patterns</li> <li>▪ 11.5 More Examples of Variables</li> </ul>	<ul style="list-style-type: none"> <li>▪ 11.1 Introduction</li> <li>▪ 11.2 Matchstick Patterns</li> <li>▪ 11.3 The Idea of a Variable</li> <li>▪ 11.4 More Matchstick Patterns</li> <li>▪ 11.5 More Examples of Variables</li> </ul>

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<b>PHASE 4</b>			
<b>Ch. No.</b>	<b>Chapter Name</b>	<b>Subtopics</b>	<b>YE portion</b>
			<b>Total Marks: 80</b> <span style="float: right;"><b>Duration: 3 hours</b></span>
			<ul style="list-style-type: none"> <li>▪ Ch. 10 of HYE is included</li> <li>▪ PT2 portion is included</li> </ul>
8	Decimals	<ul style="list-style-type: none"> <li>▪ 8.1 Introduction</li> <li>▪ 8.2 Comparing Decimals</li> <li>▪ 8.3 Using Decimals               <ul style="list-style-type: none"> <li>○ 8.3.1 Money</li> <li>○ 8.3.2 Length</li> <li>○ 8.3.3 Weight</li> </ul> </li> <li>▪ 8.4 Addition of Numbers with Decimals</li> <li>▪ 8.5 Subtraction of Decimals</li> </ul>	<ul style="list-style-type: none"> <li>▪ 8.1 Introduction</li> <li>▪ 8.2 Comparing Decimals</li> <li>▪ 8.3 Using Decimals               <ul style="list-style-type: none"> <li>○ 8.3.1 Money</li> <li>○ 8.3.2 Length</li> <li>○ 8.3.3 Weight</li> </ul> </li> <li>▪ 8.4 Addition of Numbers with Decimals</li> <li>▪ 8.5 Subtraction of Decimals</li> </ul>
12	Ratio and Proportion	<ul style="list-style-type: none"> <li>▪ 12.1 Introduction</li> <li>▪ 12.2 Ratio</li> <li>▪ 12.3 Proportion</li> <li>▪ 12.4 Unitary Method</li> </ul>	<ul style="list-style-type: none"> <li>▪ 12.1 Introduction</li> <li>▪ 12.2 Ratio</li> <li>▪ 12.3 Proportion</li> <li>▪ 12.4 Unitary Method</li> </ul>