

Class VI Maths & Science-CBSE

Class VI Math Syllabus Chapter Name	Topic to be Covered
Chapter 1: Knowing Our Numbers	1.1 Introduction 1.2 Comparing Numbers 1.3 Large Numbers in Practice 1.4 Using Brackets 1.5 Roman Numerals
Chapter 2: Whole Numbers	2.1 Introduction 2.2 Whole Numbers 2.3 The Number Line 2.4 Properties Of Whole Numbers 2.5 Patterns in Whole Numbers
Chapter 3: Playing With Numbers	3.1 Introduction 3.2 Factors and Multiples 3.3 Prime and Composite Numbers 3.4 Test For Divisibility Of Numbers 3.5 Common Factors and Common Multiples 3.6 Some More Divisibility Rules 3.7 Prime Factorisation 3.8 Highest Common Factor 3.9 Lowest Common Multiple 3.10 Some Problems on HCF and LCM
Chapter 4: Basic Geometrical Ideas	4.1 Introduction 4.2 Points 4.3 A Line Segment 4.4 A line 4.5 Intersecting Lines 4.6 Parallel Lines 4.7 Ray 4.8 Curves 4.9 Polygons 4.10 Angles 4.11 Triangles 4.12 Quadrilaterals 4.13 Circles
Chapter 5: Understanding Elementary Shapes	5.1 Introduction 5.2 Measuring Line Segments 5.3 Angles- 'Right' and 'Straight' 5.4 Angles- 'Acute', 'Obtuse' and 'Reflex' 5.5 Measuring Angles 5.6 Perpendicular Lines 5.7 Classification of Triangles 5.8 Quadrilaterals 5.9 Polygons

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	5.10 Three Dimensional Shapes
Chapter 6: Integers	6.1 Introduction 6.2 Integers 6.3 Addition of Integers 6.4 Subtraction of Integers with the help of a Number Line
Chapter 7: Fractions	7.1 Introduction 7.2 A Fraction 7.3 Fraction on the Number Line 7.4 Proper Fractions 7.5 Improper and Mixed Fractions 7.6 Equivalent Fractions 7.7 Simplest Form of a Fraction 7.8 Like Fractions 7.9 Comparing Fractions 7.10 Addition and Subtraction of Fractions
Chapter 8: Decimals	8.1 Introduction 8.2 Tenths 8.3 Hundredths 8.4 Comparing Decimals 8.5 Using Decimals 8.6 Addition of Numbers with Decimals 8.7 Subtraction of Decimals
Chapter 9: Data Handling	9.1 Introduction 9.2 Recording Data 9.3 Organisation of Data 9.4 Pictograph 9.5 Interpretation of a Pictograph 9.6 Drawing a Pictograph 9.7 A Bar Graph
Chapter 10: Mensuration	10.1 Introduction 10.2 Perimeter 10.3 Area
Chapter 11: Algebra	11.1 Introduction 11.2 Matchstick Patterns 11.3 The Idea Of A Variable 11.4 More Matchstick Patterns 11.5 More Examples of Variables 11.6 Use Of Variables in Common Rules 11.7 Expressions with Variables 11.8 Using Expressions Practically 11.9 What is an Equation? 11.10 Solution of an Equation

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Chapter 12: Ratio and Proportion	12.1 Introduction 12.2 Ratio 12.3 Proportion 12.4 Unitary Method
Chapter 13: Symmetry	13.1 Introduction 13.2 Making Symmetric Figures: Ink-blot Devils 13.3 Figures With Two Lines of Symmetry 13.4 Figures with Multiple Lines of Symmetry 13.5 Reflection and Symmetry
Chapter 14: Practical Geometry	14.1 Introduction 14.2 The Circle 14.3 A Line Segment 14.4 Perpendiculars 14.5 Angles

Science Syllabus- Class VI

S. No.	Chapter Name
1	Food: Where Does It Come From
2	Components of Food
3	Fibre to Fabric
4	Sorting Materials into Groups
5	Separation of Substances
6	Changes around Us
7	Getting to Know Plants
8	Body Movements
9	The Living Organisms and Their Surroundings
10	Motion and Measurement of Distances
11	Light, Shadows and Reflections
12	Electricity and Circuits

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13	Fun with Magnets
14	Water
15	Air Around Us
16	Garbage In, Garbage Out

Math Syllabus –Class VII

Unit.No.	Topic to be Covered
Chapter 1	Integers
Chapter 2	Fractions and Decimals
Chapter 3	Data Handling
Chapter 4	Simple Equations
Chapter 5	Lines and Angles
Chapter 6	The Triangle and its Properties
Chapter 7	Congruence of Triangles
Chapter 8	Comparing Quantities
Chapter 9	Rational Numbers
Chapter 10	Practical Geometry
Chapter 11	Perimeter and Area
Chapter 12	Algebraic Expressions
Chapter 13	Exponents and Powers
Chapter 14	Symmetry
Chapter 15	Visualising Solid Shapes

Science Syllabus - Class VII

S.No.	Topic to be Covered
1	Nutrition in Plants
2	Nutrition in Animals
3	Fibre to Fabric
4	Heat
5	Acids, Bases and Salts
6	Physical and Chemical Changes
7	Weather, Climate and Adaptations of Animals of Climate
8	Winds, Storms and Cyclones
9	Soil
10	Respiration in Organisms
11	Transportation in Animals and Plants
12	Reproduction in Plants
13	Motion and Time
14	Electric Current and its Effects
15	Light
16	Water: A Precious Resource
17	Forests: Our Lifeline
18	Wastewater Story

Class VIII Science – Syllabus

S.No.	Topic to be Covered
1	Crop Production and Management
2	Microorganisms: Friend and Foe
3	Synthetic Fibres and Plastics
4	Materials: Metals and Non-Metals
5	Coal and Petroleum
6	Combustion and Flame
7	Conservation and Flame
8	Cell Structure and Functions
9	Reproduction in Animals
10	Reaching the Age of Adolescence
11	Force and Pressure
12	Friction
13	Sound
14	Chemical Effects of Electric Current
15	Some natural Phenomena
16	Light
17	Stars and the Solar System
18	Pollution of Air and Water

Class VIII Math –Syllabus

Chapter Name	Topic to be Covered
Rational Numbers	1.1 Introduction 1.2 Properties of Rational Numbers 1.3 Representation of Rational Numbers on the Number Line 1.4 Rational Number between Two Rational Numbers
Linear Equations in One Variable	2.1 Introduction 2.2 Solving Equations which have Linear Expressions on one Side and Numbers on the Other Side 2.3 Some Applications 2.4 Solving Equations having the Variable on both sides 2.5 Some More Applications 2.6 Reducing Equations to Simpler Form 2.7 Equations Reducible to the Linear Form
Understanding Quadrilaterals	3.1 Introduction 3.2 Polygons 3.3 Some of the Measures of the Exterior Angles of a Polygon 3.4 Kinds of Quadrilaterals 3.5 Some Special Parallelograms
Practical Geometry	4.1 Introduction 4.2 Constructing a Quadrilateral 4.3 Some Special Cases
Data Handling	5.1 Looking for Information 5.2 Organising Data 5.3 Grouping Data 5.4 Circle Graph or Pie Chart 5.5 Chance and Probability
Squares and Square Roots	6.1 Introduction 6.2 Properties of Square Numbers 6.3 Some More Interesting Patterns 6.4 Finding the Square of a Number 6.5 Square Roots 6.6 Square Roots of Decimals 6.7 Estimating Square Root
Cubes and Cube Roots	7.1 Introduction 7.2 Cubes

	7.3 Cubes Roots
Comparing Quantities	<p>8.1 Recalling Ratios and Percentages</p> <p>8.2 Finding the Increase and Decrease Percent</p> <p>8.3 Finding Discounts</p> <p>8.4 Prices Related to Buying and Selling (Profit and Loss)</p> <p>8.5 Sales Tax/Value Added Tax/Goods and Services Tax</p> <p>8.6 Compound Interest</p> <p>8.7 Deducing a Formula for Compound Interest</p> <p>8.8 Rate Compounded Annually or Half Yearly (Semi-Annually)</p> <p>8.9 Applications of Compound Interest Formula</p>
Algebraic Expressions and Identities	<p>9.1 What are Expressions?</p> <p>9.2 Terms, Factors and Coefficients</p> <p>9.3 Monomials, Binomials and Polynomials</p> <p>9.4 Like and Unlike Terms</p> <p>9.5 Addition and Subtraction of Algebraic Expressions</p> <p>9.6 Multiplication of Algebraic Expressions: Introduction</p> <p>9.7 Multiplying a Monomial by a Monomial</p> <p>9.8 Multiplying a Monomial by a Polynomial</p> <p>9.9 Multiplying a Polynomial by a Polynomial</p> <p>9.10 What is an Identity?</p> <p>9.11 Standard Identities</p> <p>9.12 Applying Identities</p>
Visualising Solid Shapes	<p>10.1 Introduction</p> <p>10.2 View of 3D-Shapes</p> <p>10.3 Mapping Space Around Us</p> <p>10.4 Faces, Edges and Vertices</p>
Mensuration	<p>11.1 Introduction</p> <p>11.2 Let us Recall</p> <p>11.3 Area of Trapezium</p> <p>11.4 Area of General Quadrilateral</p> <p>11.5 Area of Polygons</p> <p>11.6 Solid Shapes</p> <p>11.7 Surface Area of Cube, Cuboid and Cylinder</p> <p>11.8 Volume of Cube, Cuboid and Cylinder</p> <p>11.9 Volume and Capacity</p>
Exponents and Powers	<p>12.1 Introduction</p> <p>12.2 Powers with Negative Exponents</p> <p>12.3 Laws of Exponents</p> <p>12.4 Use of Exponents to Express Small Numbers in Standard Form</p>

Direct and Inverse Proportions	13.1 Introduction 13.2 Direct Proportion 13.3 Inverse Proportion
Factorisation	14.1 Introduction 14.2 What is Factorisation? 14.3 Division of Algebraic Expressions 14.4 Division of Algebraic Expressions Continued (Polynomial / Polynomial) 14.5 Can you Find the Error?
Introduction to Graphs	15.1 Introduction 15.2 Linear Graphs 15.3 Some Applications
Playing with Numbers	16.1 Introduction 16.2 Numbers in General Form 16.3 Game with Numbers 16.4 Letters for Digits 16.5 Test of Divisibility