



# CBSE Class 8 Maths Updated Syllabus

## CBSE Class 8 Math's Syllabus: Course Structure

The NCERT Class 8 Maths Syllabus PDF offers a comprehensive course structure that helps students strengthen their understanding of mathematical concepts. This syllabus is divided into key areas and each section is prepared to build on what students have already learned and gradually introduce new topics.

Class 8 Maths Syllabus CBSE
Chapter 1: Rational Numbers
Chapter 2: Linear Equations in One Variable
Chapter 3: Understanding Quadrilaterals
Chapter 4: Data Handling
Chapter 5: Squares and Square Roots
Chapter 6: Cubes and Cube Roots
Chapter 7: Comparing Quantities
Chapter 8: Algebraic Expressions and Identities
Chapter 9: Mensuration
Chapter 10: Exponents and Powers
Chapter 11: Direct and Inverse Proportions

Chapter 12: Factorisation

Chapter 13: Introduction to Graphs

## Overview of CBSE Class 8 Maths Syllabus

### Chapter 1: Rational Numbers

Chapter 1 of the CBSE Class 8 Maths Syllabus focuses on Rational Numbers. It introduces students to concepts like fractions, integers, and their operations. Understanding rational numbers is crucial as they form the foundation for more complex mathematical topics later on.

#### CBSE Class 8 Maths Chapter 1: Rational Numbers

1.1	Introduction
1.2	Properties of rational numbers

### Chapter 2: Linear Equations in One Variable

Chapter 2 of the CBSE Class 8 Maths syllabus, "Linear Equations in One Variable," teaches students about solving equations with one unknown value using simple methods.

#### CBSE Class 8 Maths Chapter 2: Linear Equations in One Variable

2.1	Introduction
2.2	Solving Equations having the Variable on Both Sides
2.3	Reducing equations to a simpler form

## Chapter 3: Understanding Quadrilaterals

Chapter 3 of the CBSE Class 8 Maths syllabus, "Understanding Quadrilaterals," introduces students to the study of four-sided figures. This chapter explores the properties and classifications of quadrilaterals, providing a foundation for understanding geometric shapes and their characteristics.

### CBSE Class 8 Maths Chapter 3: Understanding Quadrilaterals

3.1	Introduction
3.2	The sum of the measures of the exterior angles of a polygon
3.3	Kinds of quadrilaterals
3.4	Some special parallelograms

## Chapter 4: Data Handling

Chapter 4 of the CBSE Class 8 Maths syllabus, Data Handling, teaches students how to organise and interpret data. It covers methods like tally marks, bar graphs, and pie charts to analyse information effectively.

### CBSE Class 8 Maths Chapter 4: Data Handling

4.1	Looking for information
4.2	Circle graph or pie chart
4.3	Chance and probability

## Chapter 5: Squares and Square Roots

Chapter 5 of the CBSE Class 8 Maths syllabus, "Squares and Square Roots," introduces students to the concepts of squares and square roots. This chapter helps students understand how to calculate and use squares and square roots in various mathematical problems, enhancing their problem-solving skills

### CBSE Class 8 Maths Chapter 5: Squares and Square Roots

5.1	Introduction
5.2	Properties of square numbers
5.3	Some more interesting patterns
5.4	Finding the square of a number
5.5	Square roots

## Chapter 6: Cubes and Cube Roots

Chapter 6 of the CBSE Class 8 Maths syllabus, "Cubes and Cube Roots," introduces students to the concepts of cubes and cube roots. It covers how to find the cube of a number and the methods to determine cube roots, helping students understand these fundamental mathematical operations.

### CBSE Class 8 Maths Chapter 6: Cubes and Cube Roots

6.1	Introduction
6.2	Cubes
6.3	Cubes roots

## Chapter 7: Comparing Quantities

Chapter 7: Comparing Quantities in the CBSE Class 8 Maths syllabus teaches students about ratios, percentages, and profit and loss calculations. It helps them understand how to compare different quantities and apply these concepts in real-life situations, enhancing their problemsolving skills.

### CBSE Class 8 Maths Chapter 7: Comparing Quantities

7.1	Recalling ratios and percentages
7.2	Finding discounts
7.3	Sales tax/ value added tax/ goods and services tax
7.4	Compound interest
7.5	Deducing a formula for compound interest
7.6	Applications of compound interest formula

## Chapter 8: Algebraic Expressions and Identities

Chapter 8 of the CBSE Class 8 Maths syllabus, "Algebraic Expressions and Identities," introduces students to algebraic expressions, terms, factors, and coefficients. It covers the basics of identities and helps students learn to simplify and solve algebraic expressions.

### CBSE Class 8 Maths Chapter 8: Algebraic Expressions and Identities

8.1	Addition and subtraction of algebraic expressions
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8.2	Multiplication of algebraic expressions: Introduction
8.3	Multiplying a monomial by a monomial
8.4	Multiplying a monomial by a polynomial
8.5	Multiplying a polynomial by a polynomial

## Chapter 9: Mensuration

Chapter 9: Mensuration in the CBSE Class 8 Maths syllabus covers the measurement of various geometric figures. It teaches students how to calculate the area, perimeter, and volume of different shapes, helping them understand practical applications of these concepts in real life.

<b>CBSE Class 8 Maths Chapter 9: Mensuration</b>	
9.1	Introduction
9.2	Area of a Polygon
9.3	Solid shapes
9.4	The surface area of a cube, cuboid, and cylinder
9.5	The volume of cube, cuboid, and cylinder
9.6	Volume and capacity

## Chapter 10: Exponents and Powers

Chapter 10 of the CBSE Class 8 Maths syllabus, "Exponents and Powers," introduces students to the concepts of exponents and their properties. It covers the laws of exponents, expressing large numbers in standard form, and using powers for calculations, helping students simplify and solve mathematical expressions efficiently.

### CBSE Class 8 Maths Chapter 10: Exponents and Powers

10.1	Introduction
10.2	Powers with negative exponents
10.3	Laws of exponents
10.4	Use of exponents to express small numbers in standard form

## Chapter 11: Direct and Inverse Proportions

Chapter 11 of the CBSE Class 8 Maths syllabus, "Direct and Inverse Proportions," teaches students how quantities change about each other. It covers concepts of direct proportion, where quantities increase or decrease together, and inverse proportion, where one quantity increases as the other decreases.

### CBSE Class 8 Maths Chapter 11: Direct and Inverse Proportions

11.1	Introduction
11.2	Direct proportion
11.3	Inverse proportion

## Chapter 12: Factorisation

Chapter 12: Factorisation in the CBSE Class 8 Maths syllabus teaches students how to break down algebraic expressions into simpler factors. This chapter covers different methods of factorisation, including common factors, grouping, and using identities. Understanding factorisation helps in solving complex algebraic problems more easily.

### CBSE Class 8 Maths Chapter 12: Factorisation

12.1	Introduction
12.2	What is factorisation?
12.3	Division of algebraic expressions
12.4	The division of algebraic expressions continued (Polynomial $\div$ Polynomial)

## Chapter 13: Introduction to Graphs

Chapter 13: "Introduction to Graphs" in the CBSE Class 8 Maths syllabus teaches students how to represent data visually using different types of graphs. This chapter helps students understand and interpret data effectively.

### CBSE Class 8 Maths Chapter 13: Introduction to Graphs

13.1	Introduction
13.2	Some applications

## Prescribed Books:

Mathematics Textbook for Class VIII, Published by NCERT