7th CBSE MATHEMATICS SYLLABUS

Chapter 1 Integers

- Introduction
- Recall
- Properties of Addition And Subtraction of Integers
- Multiplication of Integers
- Properties of Multiplication of Integers
- Division of Integers
- Properties of Division Of Integers

Chapter 2

Fractions and Decimals

- Introduction
- How Well Have You Learnt About Fractions?
- Multiplication Of Fractions
- Division Of Fractions
- How well Have You Learnt About Decimal Numbers
- Multiplication Of Decimal Numbers
- Division Of Decimal Numbers

Chapter 3

Data Handling

- Introduction
- Collecting Data
- Organisation Of Data
- Representative Values
- Arithmetic Mean
- Mode
- Median
- Use Of Bar Graphs With A Different Purpose
- Chance And Probability

Chapter 4

Simple Equations

- A Mind-Reading Game!
- Setting Up Of An Equation
- Review Of What We Know
- What Equation Is?

- More Equations
- From Solution To Equation
- Applications Of Simple Equations To Practical Situations

Chapter 5

Lines and Angles

- Introduction
- Related Angles
- Pairs Of Lines
- Checking For Parallel Lines

Chapter 6

The Triangle and its Properties

- Introduction
- Medians of A Triangle
- Altitudes of A Triangle
- Exterior Angle of A Triangle and Its Property
- Angle Sum Property of A Triangle
- Two Special Triangles: Equilateral and Isosceles
- Sum of The Lengths of Two Sides of a Triangle
- Right-Angled Triangles And Pythagoras Property

Chapter 7

Congruence of Triangles

- Introduction
- Congruence Of Plane Figures
- Congruence Among Line Segments
- Congruence Of Angles
- Congruence Of Triangles
- Criteria For Congruence Of Triangles
- Congruence Among Right-Angled Triangles

Chapter 8

Comparing Quantities

- Introduction
- Equivalent Ratios
- Percentage – Another Way Of Comparing Quantities
- Use Of Percentages
- Prices Related To An Item Or Buying And Selling
- Charge Given On Borrowed Money Or Simple Interest

Chapter 9

Rational Numbers

- Introduction
- Need For Rational Numbers
- What Are Rational Numbers?
- Positive And Negative Rational Numbers
- Rational Numbers On A Number Line
- Rational Numbers In Standard Form
- Comparison Of Rational Numbers
- Rational Numbers Between Two Rational Numbers
- Operations On Rational Numbers

Chapter 10

Practical Geometry

- Introduction
- Construction Of A Line Parallel To A Given Line, Through A Point Not On The Line
- Construction Of Triangles
- Constructing A Triangle When The Lengths Of Its Three Sides Are Known (SSS Criterion)
- Constructing A Triangle When The Lengths Of Two Sides And The Measure Of The Angle Between Them Are Known. (SAS Criterion)
- Constructing A Triangle When The Measures Of Two Of Its Angles And The Length Of The Side Included Between Them Is Given. (ASA Criterion)
- Constructing A Right-Angled Triangle When The Length Of One Leg And Its Hypotenuse Are Given (RHS Criterion)

Chapter 11

Perimeter and Area

- Introduction
- Squares And Rectangles
- Area Of A Parallelogram
- Area Of A Triangle
- Circles
- Conversion Of Units
- Applications

Chapter 12

Algebraic Expressions

- Introduction
- How Are Expressions Formed?
- Terms Of An Expression

- Like And Unlike Terms
- Monomials, Binomials, Trinomials And Polynomials
- Addition And Subtraction Of Algebraic Expressions
- Finding The Value Of An Expression
- Using Algebraic Expressions – Formulas And Rules

Chapter 13

Exponents and Powers

- Introduction
- Exponents
- Laws Of Exponents
- Miscellaneous Examples Using The Laws Of Exponents
- Decimal Number System
- Expressing Large Numbers In The Standard Form

Chapter 14

Symmetry

- Introduction
- Lines Of Symmetry For Regular Polygons
- Rotational Symmetry
- Line Symmetry And Rotational Symmetry

Chapter 15

Visualising Solid Shapes

- Introduction: Plane Figures And Solid Shapes
- Faces, Edges And Vertices
- Nets For Building 3-D Shapes
- Drawing Solids On A Flat Surface
- Viewing Different Sections Of A Solid