

Topics to be Covered in 10th Class Mathematics

Topic	Content
Real Numbers	Introduction
Real Numbers	The Fundamental Theorem of Arithmetic
Real Numbers	Revisiting Irrational Numbers
Real Numbers	Summary
Polynomials	Introduction
Polynomials	Geometrical Meaning of the Zeroes of a Polynomial
Polynomials	Relationship between Zeroes and Coefficients of a Polynomial
Polynomials	Summary
Pair of Linear Equations in Two Variables	Introduction
Pair of Linear Equations in Two Variables	Graphical Method of Solution of a Pair of Linear Equations
Pair of Linear Equations in Two Variables	Algebraic Methods of Solving a Pair of Linear Equations
Pair of Linear Equations in Two Variables	Substitution Method
Pair of Linear Equations in Two Variables	Elimination Method

Pair of Linear Equations in Two Variables	Summary
Quadratic Equations	Introduction
Quadratic Equations	Quadratic Equations
Quadratic Equations	Solution of a Quadratic Equation by Factorisation
Quadratic Equations	Nature of Roots
Quadratic Equations	Summary
Arithmetic Progressions	Introduction
Arithmetic Progressions	Arithmetic Progressions
Arithmetic Progressions	n th Term of an AP
Arithmetic Progressions	Sum of First n Terms of an AP
Arithmetic Progressions	Summary
Triangles	Introduction
Triangles	Similar Figures
Triangles	Similarity of Triangles
Triangles	Criteria for Similarity of Triangles
Triangles	Summary
Coordinate Geometry	Introduction

Coordinate Geometry	Distance Formula
Coordinate Geometry	Section Formula
Coordinate Geometry	Summary
Introduction to Trigonometry	Introduction
Introduction to Trigonometry	Trigonometric Ratios
Introduction to Trigonometry	Trigonometric Ratios of Some Specific Angles
Introduction to Trigonometry	Trigonometric Identities
Introduction to Trigonometry	Summary
Some Applications of Trigonometry	Heights and Distances
Some Applications of Trigonometry	Summary
Circles	Introduction
Circles	Tangent to a Circle
Circles	Number of Tangents from a Point on a Circle
Circles	Summary
Areas Related to Circles	Areas of Sector and Segment of a Circle
Areas Related to Circles	Summary
Surface Areas and Volumes	Introduction

Surface Areas and Volumes	Surface Area of a Combination of Solids
Surface Areas and Volumes	Volume of a Combination of Solids
Surface Areas and Volumes	Summary
Statistics	Introduction
Statistics	Mean of Grouped Data
Statistics	Mode of Grouped Data
Statistics	Median of Grouped Data
Statistics	Summary
Probability	Probability — A Theoretical Approach
Probability	Summary
Proofs in Mathematics	Introduction
Proofs in Mathematics	Mathematical Statements Revisited
Proofs in Mathematics	Deductive Reasoning
Proofs in Mathematics	Conjectures, Theorems, Proofs and Mathematical Reasoning
Proofs in Mathematics	Negation of a Statement
Proofs in Mathematics	Converse of a Statement
Proofs in Mathematics	Proof by Contradiction

Proofs in Mathematics	Summary
Mathematical Modelling	Introduction
Mathematical Modelling	Stages in Mathematical Modelling
Mathematical Modelling	Some Illustrations
Mathematical Modelling	Why is Mathematical Modelling Important?
Mathematical Modelling	Summary