BIHAR BOARD CLASS 12 SYLLABUS 2027

MATHEMATICS | Academic Session 2026–27

Subject-wise topics and chapter outline

This PDF is a topic-wise study guide prepared from publicly available 2026–27 BSEB syllabus summaries and standard subject outlines. It is not represented as an official BSEB-issued syllabus PDF. Confirm the final chapter list, deleted portions, practical work and prescribed textbook with the latest BSEB subject document before relying on it for examination preparation.

UNIT / CHAPTER	KEY TOPICS
Relations and Functions	Types of relations and functions, composition and invertibility.
Inverse Trigonometric Functions	Definition, principal values, domain, range and properties.
Matrices	Types, operations, transpose, symmetric matrices and inverse.
Determinants	Properties, minors, cofactors, adjoint and applications to linear equations.
Continuity and Differentiability	Continuity, differentiability, chain rule, implicit and inverse trigonometric derivatives.
Applications of Derivatives	Rate of change, increasing/decreasing functions, tangents, normals, maxima and minima.
Integrals	Indefinite and definite integration, methods and properties.
Applications of Integrals	Area under curves and area between curves.
Differential Equations	Order, degree, formation and solution of differential equations.
Vector Algebra	Vectors, direction ratios, dot product and cross product.
Three-Dimensional Geometry	Lines, planes, angles and distances in three dimensions.
Linear Programming	Constraints, feasible region, graphical method and optimisation.
Probability	Conditional probability, multiplication theorem, Bayes' theorem and random variables.

Official verification

Bihar School Examination Board: https://biharboardonline.com/ and Senior Secondary portal: https://seniorsecondary.biharboardonline.com/. Look for the Class XI–XII / Intermediate syllabus for session 2026–27.

Prepared for student reference. Subject combinations and optional subjects vary by school and registration.