



GURU NANAK PUBLIC SCHOOL RAJOURI GARDEN

Syllabus:2026-27

Class: XII

Subject: Mathematics

Objectives:

- To develop a thorough and conceptual understanding of advanced mathematical principles and their interconnections.
- To strengthen logical reasoning, analytical thinking, and problem-solving abilities in a systematic manner.
- To enable students to apply mathematical concepts effectively in real-life situations and interdisciplinary contexts.
- To cultivate precision, accuracy, and clarity in mathematical computations and expressions.
- To promote independent thinking, curiosity, and a scientific approach towards problem-solving.
- To enhance the ability to interpret, analyze, and evaluate mathematical data and results.
- To develop perseverance, patience, and a positive attitude towards challenging tasks.
- To encourage the use of mathematical tools, symbols, and representations efficiently.

UNIT 1 1/04/2026- 30/04/2026

Chapter 3: Matrices

Chapter 4: Determinants

UNIT2 1/05/2026-07/07/2026

Chapter 2 Inverse Trigonometric Functions

Chapter 5 Continuity and Differentiability

Activity: To draw the graph of $\sin^{-1} x$ using the graph of $\sin x$ and demonstrate the concept of mirror reflection (about the line $y=x$)

UNIT 3 08/07/2026- 04/08/2026

Chapter 6 ApplicationsofDerivatives

Chapter 12 LinearProgramming

Activity: To verify that almost all rectangles of the same perimeter square has maximum area.

To construct an open box of maximum volume from a given rectangular sheet by cutting squares from each corner.

UNIT 4 05/08/2026- 05/09/2026

Chapter 7 Integrals

Chapter 8ApplicationsoftheIntegrals

REVISION : 07/09/2026 – 11/09/2026

EXAMINATION 14/09/2026

UNIT 5 01/10/2026 - 26/10/2026

Chapter 9 DifferentialEquations

Chapter 10Vectors

Chapter 11 Three-dimensionalGeometry

Activity: To demonstrate that angle in a semi circle is a right angle

UNIT 6 28/10/2026- 21/11/2026

Chapter 13 Probability

Chapter 1 Relationsand Functions

Activity:To demonstrate a function which is not one one but is onto

To explain the computation of conditional probability of a given event A when event B has already occurred

1ST Pre board 23/11/2026 – 05/12/2026

Revision Unit 1 07/12/2026 – 24/12/2026

2nd Pre board 28/12/2026 – 08/01/2027

Revision Unit 2 12/01/2027 –.....