SOF International Mathematics Olympiad (IMO)

Syllabus — Class 12 (Exam Year 2026–27)

Total Questions: 50 **Duration:** 1 hr.

> Following the protocol of NEP (2020), NCF (2023), NCERT and CBSE guidelines, National and various State Boards for the convenience of schools and students, any change/reduction in the syllabi will be reflected in actual question papers.

Syllabus

Section – 1 : Verbal and Non-Verbal Reasoning.

Section – 2 : Relations and Functions, Inverse Trigonometric Functions, Matrices, Determinants, Continuity and Differentiability, Application of Derivatives, Integrals, Application of Integrals, Differential Equations, Vector Algebra, Three Dimensional Geometry, Linear Programming, Probability.

Section – 2 : Numbers, Quantification, Numerical Applications, Solutions of Simultaneous Linear Equations, Matrices, Determinants, Application of Derivatives, Integration, Application of Integrations, Differential Equations, Probability, Inferential Statistics, Index numbers, Time-Based Data, Financial Mathematics, Linear Programming.

Section – 3 : The syllabus of this section will be based on the syllabus of Quantitative Aptitude.

Section – 4 : Matrices, Determinants, Application of Derivatives, Integration, Application of Integrations, Differential Equations, Linear Programming, Probability.

NO. OF QUESTIONS

MARKS per QUESTION

M4- Achievers Section

M2- Mathematical Reasoning

M3- Everyday Mathematics

M1- Logical Reasoning

M4- Achievers Section

M2- Mathematical Reasoning

M3- Everyday Mathematics

M1- Logical Reasoning

M4- Achievers Section

M2- Mathematical Reasoning / Applied Mathematics

M3- Everyday Mathematics

M1- Logical Reasoning

Marks Distribution — Class 11th & 12th

Section	No. of Questions	Marks per Question	Total Marks
Mathematics	25	1	25
Mathematical Reasoning / Applied Mathematics	20	1	20
Achievers Section	5	3	15
Grand Total	**50**		**60**