

AY2027 Sec 3 Entrance Exam
Topics for Mathematics Paper
Duration: 2 hrs

1. Number and Algebra II

- (a) Linear Graphs and Simultaneous Equations
- (b) Expansion & Factorisation of Quadratic Expressions
- (c) Further Expansion & Factorisation of Quadratic Expressions
- (d) Algebraic Fractions and Formulae
- (e) Quadratic Equations and Graphs
- (f) Direct and Inverse Proportions
- (g) Indices and standard form

2. Geometry and Trigonometry II

- (a) Pythagoras Theorem
- (b) Trigonometric Ratios
- (c) Congruence and Similarity
- (d) Geometrical Properties of Circles

3. Statistics and Probability II

- (a) Statistical Diagrams
- (b) Standard Deviation and Mean
- (c) Cumulative Frequency Distribution
- (d) Sets and Venn Diagram