

TERM I Entrance Exam Requirements “Going to Grade12/SAT”

Math

- | | |
|--|--|
| 1. Roots and Radical Expressions | 28. Mathematical Patterns |
| 2. Multiplying and Dividing Radical Expressions | 29. Arithmetic Sequences |
| 3. Binomial Radical Expressions | 30. Geometric Sequences |
| 4. Rational Exponents | 31. Arithmetic Series |
| 5. Solving Square Root and Other Radical Equations | 32. Geometric Series |
| 6. Function Operations | 33. Area Under a Curve |
| 7. Inverse Relations and Functions | 34. Probabilities Distributions |
| 8. Graphing Square Root and Other Radical Function | 35. Conditional Probabilities |
| 9. Exploring Exponential Models | 36. Analyzing Data |
| 10. Properties of Exponential Functions | 37. Standard Deviation |
| 11. Logarithmic Functions as Inverses | 38. Working With Samples |
| 12. Properties of Logarithms | 39. Binomial Distributions |
| 13. Exponential and Logarithmic Equations | 40. Normal Distributions |
| 14. Natural Logarithms | 41. The Tangent Functions |
| 15. Inverse Variation | 42. Radian Measure |
| 16. The Reciprocal Function Family | 43. The Sine Function |
| 17. Rational Functions and Their Graphs | 44. The Cosine Function |
| 18. Rational Expressions | 45. Exploring Periodic Data |
| 19. Adding and Subtracting Rational Expressions | 46. Translating Sine and Cosine Function |
| 20. Solving Rational Equations | 47. Reciprocal Trigonometric Functions |
| 21. Probability of Multiple Events | 48. Trigonometric Identities |
| 22. Exploring Conic Sections | 49. Solving Trigonometric Equations Using Inverses |
| 23. Parabolas | 50. Area and the Law of Sines |
| 24. Circles | 51. The Law of Cosine |
| 25. Ellipses | 52. Angle Identities |
| 26. Hyperbolas | 53. Double-Angle and Half-Angle Identities |
| 27. Translating Conic Sections | |

English

- **Reading Comprehension:** Students should be able to answer multiple choice questions based on a *critical reading* passage.
- **Grammar:** In the Grammar Section, candidates should be able to identify sentence errors. In addition, they should be able to decide on an answer that best revises the underlined part.
- **Essay:** The last question requires pupils to compose a persuasive, discursive or descriptive essay in response to a certain topic.

TERM II Entrance Exam Requirements "Grade12/SAT"

Math

Text Book:
Calculus.

Lesson 2.4 Infinite Limits (Book pages 79 to 87).

Lesson 2.5 Limits at Infinity (Book pages 88to 97).

Lesson 2.6 Continuity (Book pages 98 to 111).

Lesson 3.1 Introduction to Derivatives (Book pages 126 to 135).

Lesson 3.3 Rules of Differentiation (Book pages 144 to 152).

Lesson 3.4 Product and Quotient Rules (Book pages 153 to 162).

Lesson 3.5 Derivatives of Trigonometric Functions (Book pages 163 to 170).

Lesson 3.7 The Chain Rule (Book pages 185 to 194).

English

- **Reading Comprehension:** Students should be able to answer multiple choice questions based on a *critical reading* passage.
- **Grammar:** In the Grammar Section, candidates should be able to identify sentence errors. In addition, they should be able to decide on an answer that best revises the underlined part.
- **Essay:** The last question requires pupils to compose a persuasive, discursive or descriptive essay in response to a certain topic.

**Senior School
Administration**