IB Syllabus Coverage

Mathematics SL

Mr. Howes

The syllabus is broken up into 7 topics:

I have listed the 7 topics and the relevant chapters from your textbook.

Note: Some chapters overlap between topics.

**TOPIC 1: ALGEBRA**

ch.1 Functions

ch. 2 Sequences and series

ch. 3 Exponentials

ch. 4 Logarithms

ch. 6 Quadratic equations and Functions

ch.7 The Binomial Expansion

**TOPIC 2: FUNCTIONS AND EQUATIONS**

ch.1 Functions

ch. 3 Exponentials

ch.4 Logarithms

ch. 5 Graphing and Transforming Functions

ch. 6 Quadratic equations and functions

**TOPIC 3: CIRCULAR FUNCTIONS AND TRIGONOMETRY**

ch. 8 The unit circle and Radian Measure

ch. 9 Non-Right angled Triangle Trigonometry

ch. 10 Advanced Trigonometry

**TOPIC 4: MATRICES**

Ch. 11 Matrices

**TOPIC 5: VECTORS**

ch. 12 Vectors in 2 and 3 Dimensions

ch. 13 Lines and Planes in Space

(NOTE: TOPICS 1-5 i.e. chapters 1-13 all covered in 11th Grade. The rest of the material was covered in 12th grade)

**TOPIC 6 STATISTICS AND PROBABILITY**

ch. 14 Descriptive Statistics

ch. 15 Probability

ch. 23 Statistical Distributions of ***DISCRETE*** Random Variables

ch. 24 Statistical Distributions of ***CONTINOUS*** Random Variables

**TOPIC 7: CALCULUS**

Ch.16 Introduction to Calculus

ch. 17 Differential Calculus

ch. 18 Applications of Differential Calculus

ch.19 Derivatives of Exponential and Logarithmic Functions

ch. 20 Derivatives of Trigonometric Functions

ch. 21 Integration

ch. 22 Applications of Integration

See chapter 25 for miscellaneous calculator and non-calculator questions for revision.