

## IB Math SL Syllabus

### Topic 1: Algebra (8 Hours)

- Series and Sequences
- Exponents and logarithms
- Expansion of the Binomial Theorem

### Topic 2: Functions and Equations (24 Hours)

- Inverse and composite functions, graphing functions on a GDC
- Transformations and their graphs
- Reciprocal function
- Quadratic function and formula, domain, range, the axis of symmetry
- Exponential function

### Topic 3: Circular Functions and Trigonometry (16 Hours)

- The circle and applications of  $\cos$ ,  $\sin$ , and  $\tan$  in terms of circles
- Trigonometric equations infinite intervals
- Application of trigonometry in triangles

### Topic 4: Statistics and Probability (30 Hours)

- Concepts of discrete and continuous data
- Presentation of data
- Cumulative frequency and standard deviation
- Outcomes of complementary, combined, independent, and mutually exclusive events
- Venn diagrams and tree diagrams
- Binomial and normal distributions

### Topic 5: Calculus (36 Hours)

- Limits, derivatives, and convergence
- Chain rule, product and quotient rules
- Anti-differentiation with indefinite integration and boundary conditions
- Indefinite and definite integrals
- Kinematic problems
- Graphical behavior of functions

# Ib Math Sl May 2012

**Mark Steyvers**



**Ib Math SI May 2012:**

## The Enigmatic Realm of **Ib Math Sl May 2012**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Ib Math Sl May 2012** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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