

Additional Mathematics 10C

Time: 9 x 35 minutes per week

Course Description:

The grade 10C Additional Mathematics course is intended for high mathematical ability students from local schools who have completed their middle school (Grade 9). It is a course which prepares the students with a strong foundation to sit the IGCSE Additional Mathematics examination at the end of the academic year and allows progression to the higher level IB Mathematics course in Grades 11 and 12. It enables students to extend their mathematical skills, knowledge and understanding in the context of more advanced techniques.

Resources:

Yeo, Joseph, Teh, Keng Seng, Loh, cheng Yee and Chow, Ivy, New Syllabus Additional Mathematics (9th Edition), Shingle Publishers, Singapore

Yeo, Joseph, Teh, Keng Seng, Loh, cheng Yee and Chow, Ivy, New Syllabus Additional Mathematics Workbook (9th Edition), Shingle Publishers, Singapore

Main Topics Covered:

Semester 1

- Simultaneous equations
- Factors of polynomials
- Quadratic functions
- Indices and surds
- Logarithmic and exponential functions
- Coordinate geometry and straight line graphs
- Trigonometric functions, identities, and equations
- Circular measure
- Relations and functions
- Matrices
- Set language and notation
- Permutations and combinations
- Binomial theorem

Semester 2

- Differentiation
- Applications of Differentiation
- Integration
- Applications of integration
- Vectors and relative velocity
- Revision for Mock Examination
- Revision for IGCSE Examination

Assessment

Internal Assessment	Weighting
<ul style="list-style-type: none"> • End of Semester Examinations (SA1 + SA2) • Continual Assessment (CA1 + CA2 + CA3) including: <ul style="list-style-type: none"> - Topic tests - Class work - Homework <p>NB. Reports are issued at the end of quarters 1 and 2 and early in quarter 4.</p>	<p>25 + 60 5 + 5 + 5</p>
	100