



**COMMONWEALTH SECONDARY SCHOOL
SECONDARY 5 NORMAL ACADEMIC
ADDITIONAL MATHEMATICS (4047)
COURSE OUTLINE 2018**

SCHEDULE FOR INSTRUCTION

Term/Week	Topic / Textbook Chapter
T1W2	2.4 Exponential Functions
T1W3 – T1W4	7.1 Introduction to Logarithms
	7.2 Laws of Logarithms
	7.3 Logarithmic Equations
	7.4 Logarithms and Equations of the Form $a^x = b$
	7.5 Graphs and Applications of Logarithmic Functions
T1W5 – T1W6	4.1 Modulus Functions and their Graphs
	4.2 Graphs of Power Functions $y = a^x$
T1W7 – T1W8	8.1 Reducing Equations to Linear Form
	8.2 Linear Law
T1W9 – T1W10	17.1 Derivatives of Trigonometric Functions
	17.2 Derivatives of Exponential Functions
	17.3 Derivatives of Logarithmic Functions
T2W1	3.6 Partial Fractions
T2W2 – T2W3	18.3 Integration of Trigonometric Functions
	18.4 Integration of Exponential Functions and $\frac{1}{x}$
T2W4 – T2W5	19.1 Area between a Curve and an Axis
	19.2 Area between a Curve and a Line
T3W1 – T3W2	20.1 Displacement, Velocity and Acceleration
T3W3 – T3W4	10.1 Triangle Theorems
	10.2 Quadrilateral Theorems
	10.3 Circle Theorems

Teacher:

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REFERENCES

Basic text: Additional Maths 360 (Marshall Cavendish International (Singapore))

Other references:

- Ten Year Series (4047)
- Cambridge GCE O Level Mathematics 4047 Syllabus
- Additional hand-outs will be provided to supplement the textbook where necessary

ASSESSMENT**(i) Components of Assessment**

CA1 (0%)	SA1 (0%)	CA2 (0%)	SA (100%)
Class Test	Mid-Year Examination	Revision	Preliminary Examination
0%	0%	0%	100%

(ii) Details of Assessment**Continual Assessment (CA)**

S/N	Assessment Component	Term/Week	Format
1	Class Test	T1W6 – T1W8	Duration: 45 min
2	Revision	T3W1 – T3W8	-

Semestral Assessment (SA)

S/N	Assessment	Term/Week	Topics Tested	Format
1	Mid-Year Exam	T2W6 (tentative)	Topics covered up till T2W5	Paper 1 (44.4%): 2 h / 80 marks Type: Short questions
2	Preliminary Examination	T3W8 (tentative)	All Topics	Paper 2 (55.6%): 2 h 30 min / 100 marks Type: Long questions