

## Course Outline

### SUBJECT CALENDAR (2008) – JANUARY INTAKE 2007

Teacher: Masukor Sari

Subject: Mathematics HL – IB Diploma

Week/Date	Topic	Tasks
1 (31/12 – 6/1)	Differential Calculus. (Continued from 2007) Review of work on calculus already covered.	Quiz
2 (7/1 – 13/1)		
3 (14/1 – 20/1)	7.3 Local maxima and local minima	Task Sheet1 (Thu Jan 17)
4 (21/1 – 27/1)	Use of the first and second derivative in optimization problems.	
5 (28/1 – 3/2)	Kinematics (without integration)	Evaluation 1 (modelling)
6 (4/2 – 10/2)	7.4 Indefinite Integrations and Anti-differentiations	
7 (11/2 – 17/2)	Indefinite integration (including exponential and trigonometric functions)	Test 1 Thursday, Feb-14
8 (18/2 – 24/2)	7.5 Anti-differentiation with a boundary condition to determine the constant term.	
9 (25/2 – 2/3)	Definite integrals, Area under or bounded by graphs	
10 (3/3 – 7/3)	7.6 Kinematics with integrations.	
(8/3 – 16/3)	Mid semester break	
11 (17/3 – 23/3)	7.7 Graphical behaviour of asymptotic functions As function approaches discontinuity or the infinite.	Evaluation 2 (investigation 2)
12 (24/3 – 30/3)	More graphical behaviour, including inflections	
13 (31/3 – 6/4)	6.1 Statistical sampling and data	
14 (7/4 – 13/4)	6.2 Presentation of data: frequency tables and diagrams.	Test 2 Thursday 10.
15 (14/4 – 20/4)	box and whisker plots	
16 (21/4 – 27/4)	6.3 Mean, median, mode; quartiles, percentiles.	
17 (28/4 – 4/5)	Range; interquartile range; variance; Standard deviation.	
18 (5/5 – 11/5)	6.3 Cumulative frequency; cumulative frequency graphs;	
19 (12/5 – 18/5)	median, quartiles, percentiles	
20 (19/5 – 23/5)	Revisions	Mid-Year Examination Thursday May-22
(24/5 – 8/6)	Mid year break	

<b>Week/Date</b>	<b>Topic</b>	<b>Tasks</b>
21 (9/6 – 15/6)	6.5 Introduction to probability	Evaluation 3 (modeling 2)
22 (16/6 – 22/6)	6.6 Combined events	
23 (23/6 – 29/6)	6.7 Conditional probability 6.8 Venn Diagram	
24 (30/7 – 6/7)	6.9 Concept of discrete random variables and their probability distributions.	
25 (7/7 – 13/7)	6.10 Binomial distributions	Task Sheet 3
26 (14/7 – 20/7)	6.11 Normal distributions	
27 (21/7 – 27/7)	Revision	
28 (28/7 – 3/8)	Revision	
29 (4/8 – 10/8)	Revision	Task Sheet 4
30 (11/8 – 15/8)	Revision	
(16/8 – 24/8)	Mid term Break	
31 (25/8 – 31/8)	Revision	
32 (1/9 – 7/9)	Revision	Task sheet 5
33 (8/9 – 14/9)	Revision	
34 (15/9 – 21/9)	Revision	Task Sheet 6
35 (22/9 – 28/9)	Revision	
36 (29/9 – 5/10)	Revision	Task Sheet 7
37 (6/10 – 12/10)	Revision	
38 (13/10- 19/10)	Revision	Good Luck for the Examination
39 (20/10 – 26/10)		
40 (27/10 – 2/11)		
41 (3/11 – 9/11)	IB Examination Paper 1 HL, SL (Nov 7)	IB Examination
42 (10/11 – 14/11)	IB Examination Paper 2 HL, SL (Nov 10) IB Examination Paper 3 HL (Nov 13)	IB Examination
(15/11- 31/12)	Year End Break	