as at April 2012

IB Diploma HL (3rd edition)

Chapter	Title	Syllabus	Start Page	Notes	
1	Quadratics	2.2, 2.5, 2.6, 2.7	17	Shifted to first chapter to provide familiar introduction to course.	
2	Functions	2.1, 2.2, 2.4, 2.7	51		
3	Exponentials	1.2, 2.4	95		Mathematical
4	Logarithms	1.2, 2.4, 2.6	123		Is mathematic
5	Transforming Functions	2.2, 2.3	151		
6	Complex numbers and polynomials	1.5, 1.8, 2.5, 2.6	173		
7	Sequences and series	1.1	213		The nature of
8	Counting and the binomial expansion	1.3	243		
9	Mathematical induction	1.4	265		How many ter result is prove
10	The unit circle and radian measure	3.1, 3.2	279		Measures of a
11	Non-right angled triangle trigonometry	3.7	305		
				General trigonometric functions are introduced in the context of	
12	Trigonometric functions	3.4, 3.5	325	transformations.	Mathematical
13	Trigonometric equations and identities	3.3, 3.6	353		Mathemaics in
14	Vectors	4.1, 4.2, 4.5	383	Significant restructure of vectors chapters, including quicker introduction to 3- D vectors.	
15	Vector applications	1.9, 4.3, 4.4, 4.5, 4.6, 4.7	433	Better grouping of vector applications. Includes row reduction for the intersection of 2-D lines and 3-D planes.	Are algebra ar learning? Inde mathematics
16	Compex numbers	1.6, 1.7	479		
17	Introduction to differential calculus	6.1	507	Restructured introduction to calculus so no areas under curves until all differential calculus is done. Includes derivation from first principles.	Zeno's parado
18	Rules of differentiation	6.1, 6.2	529	All of the different derivative functions are now introduced together.	
19	Properties of curves	6.1, 6.3	563	Applications of differential calculus are split into curve properties then real work problems.	
20	Applications of differential calculus	6.3, 6.6	591		The scientific
21	Integration	6.4, 6.5, 6.7	627	Includes integration by parts.	
22	Applications of integration	6.5, 6.6	671		
23	Descriptive statistics	5.1	703		Misleading sta
24	Probability	5.2, 5.3, 5.4			Applications o
25	Discrete random variables	5.5, 5.6		Removed tables of probabilities for distributions since all are now done by graphics calculator.	
26	The normal distribution	5.5, 5.7			
27	Miscellaneous questions				
	Answers				
	Index				

Additional Notes:

* Regrouping by syllabus topic so far as is possible. Topic 1 was unavoidably

broken since we require trigonometry before cis(theta)

* Theory of knowledge ideas included within the text.

* Matrices included on CD

*Calculator instructions on CD

ТОК

l proof

cs an invention or a discovery?

f infinity

erms do we need to consider before a en?

angle - mathematics in nature

I language and symbols

in society

nd geometry separate areas of ependent development of

ЭΧ

method

atistics

of probability