

Immanuel Lutheran College

S.2 Mathematics Course Outline (2011 – 2012)

Textbook: New Trend Mathematics (Second Ed.: School- based Curriculum) 2A, 2B (Chung Tai)

<i>Date</i>	<i>Chapter</i>	<i>Topics</i>	No. of periods
2/9/11 – 15/9/11	3.1, 3.2	Identities and expansion	10
16/9/11 – 23/9/11	12.1, 12.2	Polygons	7
26/9/11 – 3/10/11	11 (bk. 1B)	Linear equations in two unknowns	7
Quiz 1 (25 min.)			
4/10/11 – 12/10/11	4	Simultaneous Equations	7
13/10/11 – 25/10/11	6.1, 6.2, 6.6	Square roots, surd operation	9
UT 1 (45 min.)¹			
1/11/11 – 14/11/11	5.1 - 5.4	Congruent triangles	12
15/11/11 – 28/11/11	3.3, 3.4	Factorization	10
Quiz 2 (25 min.)			
29/11/11 – 5/12/11	6.3-6.5	Pythagoras' Theorem	6
6/12/11 – 20/12/11	7	More about Statistics	12
EXAM 1 (60 min.)²			
7/2/12 – 14/2/12	2	<i>Measurement and error</i>	7
15/2/12 – 21/2/12	9.1, 9.2	Algebraic fraction	6
22/2/12 – 6/3/12	8	Inequalities	10
Quiz 3 (25 min.)			
7/3/12 – 14/3/12	9.3, 9.4	Formula	7
15/2/12 – 13/4/12	10.1, 10.2, 10.6 AI, AII, BI	Area of polygons, Area ratio of similar figure, Volume and surface area of prism,	10
UT 2 (45 min.)³			
20/4/12 – 2/5/12	5.5	Similar triangle	9
3/5/12 – 17/5/12	10.3 -10.5; 10.6 AIII, BII, 10.7	Area of circles, Arc Length, Area of Sector, Volume and Surface Area of Cylinders, Accumulation of Error	13
Quiz 4 (25 min.)			
18/5/12 – 30/5/12	11	Trigonometry	10
31/5/12 – 11/6/12	13	central tendency	8
EXAM 2 (I: 60 min.; II: 30 min.)⁴			

1st term uniform quiz: Day 3

¹ Self-reading: Simple Constructions and Construction of Regular Polygons (Chapter 12.4 and 12.5, pp. 16 – 29).

² Self-reading: Construction of Triangles (Chapter 5.3, pp. 12 – 16).

³ Self-reading: *A Brief History of π* (passage to be distributed to students in the second term).

⁴ Self-reading: *Trigonometric Ratios and The Unit Circle* (passage to be distributed to students in the second term).