IB DP Math Studies
Unit 3 / Topic 6: Mathematical Models
1st and 2nd Quarters ♦ A-days ♦ 2016-2017

☺ *This syllabus is a guide only and is <u>subject to change</u>. Any changes will be written on the board.*
It is your responsibility is to check the board each day and copy the correct assignment into your planner. ☺

DATE	TOPIC	TOPIC NUMBER	TEXT REFERENCE	ASSIGNMENT	PA#
October 26 (W – A) *Day 1*	Relations and Functions	6.1	Chapter 16	Finish the Topic 4 Review and check it before next class using the posted key	**PA18**
October 28 (F – A)	**SUMMATIVE ASSESSMENT – Topic 4: Statistical Applications**	4.1-4.4	Chapters 10, 11	Read pages 484-491 p 486 (16A: 2) p 488-489 (16B: 6, 8)	**PA19**
November 1 (Tu – A) *Day 2*	Linear Models Quadratic Models	6.2 6.3	Chapters 16 and 17	p 493 (16D: 3, 4, 6, 7, 8) p 504 (17A: 1, 3, 4(a-c), 5, 8)	**PA20**
November 3 (Th – A) *Day 3*	Quadratic Models	6.3	Chapter 17	~~p 527 Review Set 17B~~ "Quadratics Review, continued" WS	**PA21**
November 7 (M – A) *Last Day of 1st Quarter* *Day 4*	QUIZ 1 (Day 1) Exponential Models	6.4	Chapter 18	Topic 6, Day 4 Homework Practice WS	**PA1**
November 8 (Tu) - Election Day: Staff Day – No School for Students					
November 10 (Th – A) *First A-Day of 2nd Quarter* *Day 5*	Exponential Models	6.4	Chapter 18	p 542 Review Set 18B	**PA2**
November 11 (F): Veterans' Day Holiday – No School					
November 15 (Tu – A) *Report Cards Issued* *Day 6*	QUIZ 2 (Days 2 – 5) Other Mathematical Models	6.5 6.6 6.7	Chapter 19	p 545 (19A: 1, 2, 4a, 4d) p 549 (19B: 1, 2d, 3)	**PA3**
November 17 (Th – A) *Adjusted Schedule – Collab./CAV Connection* *Day 7*	Other Mathematical Models	6.5 6.6 6.7	Chapter 19	p 557 Review Set 19B	**PA4**
November 21 (M – A) *Day 8*	Topic 6 Unit Review	6.1-6.7	Chapters 16-19	Complete the Topic 6 Unit Review AND check it BEFORE 12/1/16 using the key posted in Edmodo.	**PA5**
November 23 (W – A) *Adjusted Dismissal - Thanksgiving*	***If you have a laptop that you can bring to class, bring it today!*** Internal Assessment Work				**PA6**
November 24 (Th) – 25 (F): Thanksgiving Holidays – No School ***Return to School on Monday, November 28 (B-Day)***					
Happy Thanksgiving !!					
November 29 (Tu – A)	Unit 4, Topic 1, Day 1: Number and Algebra	3.1, 3.5	Chapter 7	Finish Topic 1, Day 1 "Classwork" WS	**PA7**
December 1 (Th – A) *Day 9*	**SUMMATIVE ASSESSMENT - Unit 3, Topic 6: Mathematical Models**	6.1-6.7	Chapters 16-19	Read Chapter 7, Sections A and D Text p. 216-217 (2, 6, 7) Text p. 221 (1, 2, 6)	**PA8**

IB DP Math Studies

Unit 3 / Topic 6: Mathematical Models

1st and 2nd Quarters ♦ B-days ♦ 2016-2017

☺ *This syllabus is a guide only and is* <u>*subject to change*</u>*. Any changes will be written on the board.*
It is your responsibility is to check the board each day and copy the correct assignment into your planner. ☺

DATE	TOPIC	TOPIC NUMBER	TEXT REFERENCE	ASSIGNMENT	PA#
November 2 (W – B) *Day 1*	Relations and Functions	6.1	Chapter 16	p 486 (16A: 1-4) p 488 (16B: 3, 5a, 5c, 5f, 8) p 490 (16C: 1, 2(a-i))	**PA18**
November 4 (F – B) *Day 2*	Linear Models Quadratic Models	6.2 6.3	Chapters 16 and 17	p 493 (16D: 3, 4, 6, 7, 8) p 504 (17A: 1, 3, 4(a-c), 5, 8)	**PA10**
November 8 (Tu) - Election Day: Staff Day – No School for Students					
November 9 (W – B) *First Day of 2nd Quarter* *Day 3*	**QUIZ 1 (Day 1)** Quadratic Models	6.3	Chapter 17	~~p 527 Review Set 17B~~ "Quadratics Review, continued" WS	**PA11**
November 11 (F): Veterans' Day Holiday – No School					
November 14 (M – B) *Day 4*	Exponential Models	6.4	Chapter 18	Topic 6, Day 4 Homework Practice WS	**PA12**
November 16 (W – B) *Day 5*	Exponential Models	6.4	Chapter 18	p 542 Review Set 18B	**PA13**
November 18 (F – B) *Day 6*	**QUIZ 2 (Days 2 – 5)** Other Mathematical Models	6.5 6.6 6.7	Chapter 19	p 545 (19A: 1, 2, 4a, 4d) p 549 (19B: 1, 2d, 3)	**PA14**
November 22 (Tu – B) *Day 7*	Other Mathematical Models	6.5 6.6 6.7	Chapter 19	p 557 Review Set 19B	**PA15**
November 24 (Th) – 25 (F): Thanksgiving Holidays – No School *Return to School on Monday, November 28 (B-Day)*					

Happy Thanksgiving !!

DATE	TOPIC	TOPIC NUMBER	TEXT REFERENCE	ASSIGNMENT	PA#
November 28 (M – B) *Day 8*	Topic 6 Unit Review	6.1-6.7	Chapters 16-19	Complete the Topic 6 Unit Review AND check it BEFORE NEXT CLASS using the key posted in Edmodo.	**PA16**
November 30 (W – B) *Day 9*	**SUMMATIVE ASSESSMENT - Unit 3, Topic 6: Mathematical Models**	6.1-6.7	Chapters 16-19	Read Chapter 7, Sections A and D Text p. 216-217 (2, 6, 7) Text p. 221 (1, 2, 6)	**PA17**

Topic 6 Overview

Students will identify the concept of a function and be able to identify and evaluate linear, quadratic, exponential, and polynomial functions. Students will be make accurate graphs of these functions and use a GDC to sketch and analyze less familiar functions.

The BIG Idea for Topic 6 is . . .

- Through functions, patterns are given meaning. Understanding the characteristics or properties of a pattern allows modeling of real world data, and vice versa.

Topic 6 Essential Questions

Be sure to answer these as we progress through the unit. Some or all of them may be used as essay questions on graded assessments. ☺

◆ How are functions defined and represented?

◆ What is the relationship between the graph of a function and its algebraic rule?

◆ How are growth and decay modeled by functions?

◆ How can the GDC be useful in graphing unfamiliar functions and solving unfamiliar equations?

Topic 6 Learning Target Sets		Set Mastered ✓	Summative Assessment Score (points)	Summative Assessment %
Learning Target Set A	Linear Models			
Learning Target Set B	Quadratic Models			
Learning Target Set C	Exponential Models			
Learning Target Set D	Other Mathematical Models			