

# IB DP Math Studies

## Unit 1 / Topic 2: Descriptive Statistics

1<sup>st</sup> Quarter ♦ 2016-2017

☺ This syllabus is a guide only and is subject to change. 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#
September 6 (Tu – A)	Introduction to the course		Chapter 6	Return signed forms, get supplies	PA1
September 7 (W – B) Day 1	Introduction to Descriptive Statistics - Classifying Data	2.1		Day 1 PA WS: Number Sets, Significant Figures, Rounding	
September 8 (Th – A)	Internal Assessment Sample				PA2
September 9 (F – B)	Project Review				
September 12 (M – A)	Histograms and Box and	2.2	Chapter 6	Day 2 PA WS: Displaying Data	PA3
September 13 (Tu – B) Day 2	Whisker Plots	2.3 2.4 2.6			
September 14 (W – A)	Frequency Tables	2.2		Day 3 PA WS: Classifying Data, Box	PA4
September 15 (Th – B) Day 3	Cumulative Frequency Curves	2.3 2.4	Chapter 6	and Whisker, Cumulative Frequency	
September 16 (F – A) <i>Adjusted Schedule – CAV Connection</i>	Measures of Dispersion	2.5 2.6	Chapter 6	Day 4 PA WS: Measures of Dispersion	PA5
September 19 (M – B) Day 4					
September 20 (Tu – A)	<b>QUIZ (Days 1 - 3)</b>	2.5	Chapter 6	Finish Day 5 Practice WS:	PA6
<del>September 21 (W – B)</del> <b>September 23 (F – B)</b> Day 5	Measures of Dispersion	2.6		Descriptive Statistics	
<del>September 22 (Th – A)</del> <b>September 26 (M – A)</b> <b>September 27 (Tu – B)</b> Day 6	Topic 2 Review: Descriptive Statistics	2.1-2.6	Chapter 6	Complete the Topic 2 Review WS and check it before next class using the KEY posted in Edmodo	PA7
<b>September 28 (W – A)</b> <b>September 29 (Th – B)</b> Day 7	<b>UNIT ASSESSMENT – Unit 1, Topic 2: Descriptive Statistics</b>	2.1-2.6	Chapter 6	To be announced	PA8

☺ Open House is Thursday, SEPTEMBER 29, 2016 at 6:00p.m. ☺

☺ Please encourage your parents to attend!! ☺

### Topic 2 Overview

Students will classify and interpret discrete and continuous data. Analysis will include constructing and interpreting frequency histograms and graphs, cumulative frequency tables and curves, box and whisker plots, and stem and leaf diagrams. Students will identify the measures of central tendency for discrete and grouped data, and be able to find the standard deviation.

The BIG Idea for Topic 2 is . . .

- ♦ Data has several types of models and representations, which are used to organize, manipulate and predict outcomes.

## Topic 2 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 do statistical measures help us analyze data?
- ◆ How can data be used to support a position or find a relationship?
- ◆ How can you explain what is revealed (or concealed) by using statistical analysis?



<b>Topic 2 Learning Targets</b>		<b>Skill Mastered</b> ✓	<b>Summative Assessment Score</b> (points)	<b>Summative Assessment %</b>
Learning Target A	I can classify data as quantitative or categorical and discrete or continuous, graph a histogram or box and whisker plot and interpret their meaning with respect to data.			
Learning Target B	I can graph a cumulative frequency curve and use it to analyze data.			
Learning Target C	I can calculate measures of central tendency, including standard deviation, and interpret their meaning with respect to data.			