

IB DP HL Applications and Interpretations HL (IB1)

Summary				
HL Statistical measu	res			
Subject Mathematics: applications and interpretation	Year IB1	Start date Week 2, October	Duration 4 weeks	
Course Part Description In this unit you will learn how	v to manipulate and app	bly statistical measures to real-life situa	tions.	
📽 Inquiry & Purpose	e			
Inquiry / Higher Order Questions				
Туре	Inquiry Questions			
Skills-based	Lies, lies and statistics is a commonly used phrase - why do you think this is the case?			

Skills-based What effects do outliers have on our different statistical measures?

# Curriculum

## 💮 Aims

Take action to apply and transfer skills to alternative situations, to other areas of knowledge and to future developments in their local and global communities

#### Objectives

Technology: Use technology accurately, appropriately and efficiently both to explore new ideas and to solve problems.

## Syllabus Content

### **Topic 4: Statistics and probability**

SL Content

## SL 4.1

Concepts of population, sample, random sample, discrete and continuous data.



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Reliability of data sources and bias in sampling.

Interpretation of outliers.

Sampling techniques and their effectiveness.

#### SL 4.2

Presentation of data (discrete and continuous): frequency distributions (tables).

Histograms.

Cumulative frequency; cumulative frequency graphs; use to find median, quartiles, percentiles, range and interquartile range (IQR).

Production and understanding of box and whisker diagrams.

#### SL 4.3

Measures of central tendency (mean, median and mode).

Estimation of mean from grouped data.

Modal class.

Measures of dispersion (interquartile range, standard deviation and variance).

Effect of constant changes on the original data.

Quartiles of discrete data.

#### AHL Content

AHL 4.12

Design of valid data collection methods, such as surveys and questionnaires.

Selecting relevant variables from many variables.

Choosing relevant and appropriate data to analyse.

# 🕴 ATL Skills

P Approaches to Learning

## Thinking

- In this unit, we will

set students a task which required higher-order thinking skills (such as analysis or evaluation)

build on a specific prior task



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🕹 De	Seveloping IB Learners			
🏠 Lear	ner Profile			
	Inquirers			
	Knowledgeable			
-	Thinkers			