

IB DP IB Mathematics Analysis and approaches SL 2022 (IB1)

IBT)			
Summary			
SL Chapter 7 - Correlation and Regression			
Subject Mathematics: analysis and approaches	Year IB1	Start date Week 1, May	Duration 1 week
Course Part			
Description In this unit you will explore how to model the relationships between two sets of data.			
📽 Inquiry & Purpose			
⑦ Inquiry / Higher Order Questions			
Туре	Inquiry Questions		
Concept-based	Does correlation always imply causation?		
Skills-based	What is the importance of the domain of data with regards to estimating models?		
Aims			
Appreciate how developments in technology and mathematics influence each other			
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 4.4

Linear correlation of bivariate data.

Pearson's product-moment correlation coefficient, r.



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Scatter diagrams; lines of best fit, by eye, passing through the mean point.

Equation of the regression line of y on x.

Use of the equation of the regression line for prediction purposes.

Interpret the meaning of the parameters, a and b, in a linear regression y = ax + b.

SL 4.10

Equation of the regression line of x on y.

Use of the equation for prediction purposes.

ATL Skills

P Approaches to Learning

f Thinking

- In this unit, we will

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

include a reflection activity

make a link to TOK

👃 Developing IB Learners





Reflective