

IB DP Maths HL AA IB1 (IB1)

Mary Assaad, Thomas Jacobs

Ve Summary				
HL Statistics (Bivariate Analysis)				
Subject Mathematics: analysis and approaches	Year IB1	Start date Week 1, May	Duration 1 week	
Course Part				
Description In this chapter we describe and model relationships between pairs of numerical variables				
🛸 Inquiry & Purpos	9			
 (?) Inquiry / Higher Order Questions 				
Туре	Inquiry Questions			
Debatable	Correlation and causation-can we have knowledge of cause and effect relationships given that we can only observe correlation? What factors affect the reliability and validity of mathematical models in describing real-life phenomena?			
Skills-based	What are the dangers of extrapolation?			
Curriculum				
🕀 Aims				
Employ and refine their powers of abstraction and generalization				

♦ 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 4.4

Linear correlation of bivariate data.

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Pearson's product-moment correlation coefficient, r.

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

Thinking

- In this unit, we will

ask students to formulate a reasoned argument to support their opinion or conclusion

give students time to think through their answers before asking them for a response

reward a new personal understanding, solution or approach to an issue

ask open questions

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

build on a specific prior task

help students to make their thinking more visible (for example, by using a strategy such as a thinking routine) require students to take an unfamiliar viewpoint into account when formulating arguments

ask questions that required the use of knowledge from a different subject from the one you are teaching

include a reflection activity

make a link to TOK

🚡 Developing IB Learners

1 Learner Profile

Inquirers



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	Knowledgeable
-	Thinkers
	Communicators
	Risk-takers (Courageous)
A Constant	Reflective