School-supervised mathematical exploration

International Baccalaureate · IB Diploma · Mathematics: Analysis and Approaches · HL · Vocabulary in context

Word	Example
mathematical exploration	In the **mathematical exploration**, you study a maths topic you enjoy.
internal assessment	The **internal assessment** is a fieldwork report.
moderation	During **moderation**, an examiner checks the teacher's marks.
presentation /ˌprezənˈteɪʃn/	Good **presentation** makes the exploration clear and easy to follow.
mathematical communication	Good **mathematical communication** uses correct notation and labelled graphs.
personal engagement	Choosing a topic you care about shows **personal engagement**.
reflection /rɪˈflekʃn/	The essay ends with a personal **reflection**.
use of mathematics	The **use of mathematics** must be correct and fit your topic.
research question /rɪˈsɜːtʃ ˈkwestʃn/	A good **research question** names what you change and what you measure.
proposal /prəˈpəʊzl/	Write a short **proposal** with your aim and research question.
regression line /rɪˈgreʃn laɪn/	A **regression line** $y = a + bx$ is the line of best fit for predicting y from x. $y = a + bx$ x y

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Word	Example
↕ **residual** /rɪˈsɪdʒuːəl/	Subtract the predicted value from the real value to find the **residual**.
◌ **assumption** /əˈsʌmpʃn/	The argument rests on one **assumption**: that all students have a phone.

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