# School-supervised mathematical exploration

International Baccalaureate · IB Diploma · Mathematics: Analysis and Approaches · SL · 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 |
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| ↕ **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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