



IB Math Exploration

You will be answering these questions and turning them in to me:

- Here's my general topic:
- Here's what I want to do with that topic:
- Here's the math I want to incorporate:

Key Dates:

- Exploration Introduction – Monday, Dec. 8th
- In the Computer Lab to Explore Ideas – Wednesday, Dec. 10th
- **Answers to 3 questions from above – DUE Wednesday, Dec. 17th (5 points)**
- Go through sample papers and grading – Monday, Jan. 5th
- In the LMC to Research Topic – ?
- **Outline of Exploration – DUE Wednesday, Jan. 14th (10 points)**
- **Rough Draft of Exploration – DUE Friday, Jan. 30th (25 points)**
- Mr. Peterson meets with students about first draft – Week of Feb. 9th
- **Completed Exploration – DUE Friday, Feb. 27th (100 points)**
 - **You will be submitting this to Turnitin.com and giving me a paper copy.**

Grading:

- Each part must be turned in at the start of class that day.
- If a part is turned in late (including to turnitin.com), there is a 10% reduction of the grade for that assignment for each day it is not turned in.

FAQ:

What is the difference between a mathematical exploration and an extended essay in mathematics?

The criteria are completely different. It is intended that the exploration is to be a much less extensive piece of work than a mathematics extended essay. The intention is for students to "explore" an idea rather than have to do the formal research demanded in an extended essay.

How long should it be?

It is difficult to be prescriptive about mathematical writing. However, the Mathematics SL guide states that 6–12 pages should be appropriate. A common failing of mathematical writing is excessive repetition, and this should be avoided, as such explorations will be penalized for lack of conciseness. However, it is recognized that some explorations will require the use of several diagrams, which may extend them beyond the page limit.

How long should it take?

It is difficult to give a single answer. However, the guideline of 10 hours class time with approximately the same amount of time outside class should suffice for students to develop their ideas and complete the exploration.

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Kaylene S. Camuti



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