



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.

Ib Exploration Math Examples

Clifford Lane



Ib Exploration Math Examples:

Exploring Mathematics Craig Johnson, 2014-08 Exploring Mathematics Investigations with Functions is intended for a one or two term course in mathematics for college students majoring in the social sciences English history music art education or any of the other majors within liberal arts The mathematics course of this scope with an algebra prerequisite is a popular selection for liberal arts students This 9 chapter textbook offers modern applications of mathematics in the liberal arts as well as aesthetic features of this rich facet of history and ongoing advancement of human society With a central theme around the use of the concept of functions and the inclusion of unique topics and chapters Exploring Mathematics enables students to explore the next level of mathematics It attempts to answer the questions How does mathematics help us to better our society and understand the world around us and What are some of the unifying ideas of mathematics The central theme helps to impress upon the student the feeling that mathematics is more than a disconnected potpourri of rules and tricks Although it would be inappropriate to force a functional connection in every single section the theme is used whenever possible to provide conceptual bridges between chapters Developing the concept of a function augments the presentation of many topics in every chapter The Text s Objectives The author chose the topics based on meeting the specific NCTM curriculum standards to 1 Strengthen estimation and computational skills 2 Utilize algebraic concepts 3 Emphasize problem solving and reasoning 4 Emphasize pattern and relationship recognition 5 Highlight importance of units in measurement 6 Highlight importance of the notion of a mathematical function 7 Display mathematical connections to other disciplines

Exploring Issues of Continuity: The International Baccalaureate in a wider context Jeff Thompson, Mary Hayden, 2013-09-09 Exploring Issues of Continuity The IB in a wider context examines continuity across the IB programmes and more widely across the sphere of international education

Introducing the IB Diploma Programme Marc Abrioux, Jill Rutherford, 2013-02-14 Schools wishing to introduce the IB diploma programme are faced with major investment in terms of time effort and money in order to become authorised This manual is a resource for schools already offering the diploma as well as for prospective diploma schools

Explorations 1 in Math Betty Coombs, 1993 [A Problem Solving Approach to Mathematics for Elementary School Teachers](#) Rick Billstein, 1997 Sixth ed also published under title [A problem solving approach to mathematics](#) Includes bibliographical references and index [Advanced Algebra with the TI-89](#) Brendan Kelly, 2000

17th International Geochemical Exploration Symposium "Exploring the Tropics" Kaylene S. Camuti, 1995 *Teaching Children Mathematics*, 2000 *Mathematical Chronicle*, 1985

Applied Mathematics for Business, Economics, Life Sciences, and Social Sciences Raymond A. Barnett, Michael R. Ziegler, Karl E. Byleen, 2000 Written in a student friendly format this text prepares students to understand finite mathematics and calculus used in a wide range of disciplines Covering relevant topics from finance linear algebra programming and probability the Seventh Edition places emphasis on computational skills ideas and problem solving Other highlights include a rich variety of applications and

integration of graphing calculators *Mathematics* ,1991 **The 1986 Educational Software Preview Guide** California. State Department of Education,1986 **Finite Mathematics for Business, Economics, Life Sciences, and Social Sciences** Raymond A. Barnett,Michael R. Ziegler,Karl E. Byleen,1999 This text contains examples and exercises illustrating the use of regression techniques to analyze real data Graphing calculator and spreadsheets output is included R.R. *Bowker's Software for Schools* ,1987 **For the Learning of Mathematics** ,1994 *Indian Science Abstracts* ,2001-04

Pedagogy in a New Tonality Peter Gouzouasis,2011 This is a book for teachers by teachers from elementary school to university level classrooms It is about the use of creative instructional strategies in K 12 class room settings and the transformations the teachers made in their journeys from being traditional practitioners to becoming pedagogical in their approaches to teaching and learning across the curriculum Over twenty teachers conducted research in their classrooms on the implementation of creative strategies tactics graphics organizers and visual journals in teaching and learning They have written their inquiries in a narrative style informed by various forms of arts based educational research Their research is approachable and usable by other teachers who are interested in becoming reflective reflexive practitioners Many of the strategies tactics and graphics organizers are described by Barrie Bennett in his widely used textbook *Beyond Monet The Artful Science of Instructional Intelligence* However through their journeys of becoming teacher learner researchers many discovered numerous creative variations of Bennett s work as it was implemented in their classrooms While there are many professional books that provide ideas on collaborative learning and creative teaching approaches there is very little published research on the efficacy of these concepts in the K 12 classroom These inquiries provide practical insights into how inspired teachers can conduct research on improving their own practice as well as on greatly improving their students learning

PASCAL explore ,1988 **Everyday Mathematics** ,2002 **Mathematical Reviews** ,2008

Unveiling the Magic of Words: A Overview of "**Ib Exploration Math Examples**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Ib Exploration Math Examples**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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