**IB Math HL Exploration Research Form**

**Due:** Names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Topic (Stimulus): \_\_\_\_\_\_\_\_\_\_\_\_\_\_**  Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_/10

Considering the topic above and mind map, choose 4 sub categories of the topic which interest you to explore. Using resources, list a main idea how you could explore the topic “applying mathematics” for each category. Provide the bibliography or the source of the idea. You may use the IB Mathematics HL guide, books, internet, or interviewing an expert. You are expected to be thoughtful and be specific, such as using mathematical terms, specific equations and functions, and/or formulas.

Source: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1.

Source: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3.

Source: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1.

Source: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* **Summarize your finding above how you can utilize them into your exploration. State in two-three paragraphs what are your purposes of this exploration, what you want to accomplish via this exploration, and what mathematical proofs you will present.**