HL Math IA First Draft Checklist Author Name Reviewer Name

**Reviewer: Check all that apply and make comments that will help the author earn more points. You are being graded, too.**

Total checkmarks: \_\_\_\_\_\_/30 (Yup, 35 possible. You’re welcome.) Meets IB standard (>19)? Circle: Yes No

**Communication**

1⎕ Starts with an introduction. 2⎕ Has a clearly written aim and rationale. 3⎕ The writing flows nicely.

4⎕ The entire paper focuses on the aim and avoiding irrelevance. Doesn’t go off on a tangent.

5⎕ Exploration is coherent (logically organized, understandable, having clarity).

6⎕ Includes graphs, tables and diagrams at appropriate places and not attach them all at the end.

7⎕ Had a peer edit the paper (done in class or done outside of class if you are absent on the due date).

8⎕ All references listed in Works Cited and acknowledged direct quotes appropriately.

9⎕ Ends with a conclusion and relating back to the aim and rationale.

10⎕ Page numbers in upper right corner of every page.

**Mathematical presentation**

11⎕ Uses appropriate mathematical language and representation. (No computer notation \*, ^, etc)

12⎕ Defines key terms where necessary. 13⎕ Uses appropriate technology.

14⎕ The degree of accuracy appropriate and explained. (e.g., how many decimal places are relevant?)

**Personal engagement**

15⎕ Gives evidence of asking and answering personally relevant questions (I wonder if…, What if…)

16⎕ Gives evidence of thinking independently, creatively, and/or originally.

17⎕ Addresses why the your topic is interesting or why it appealed to the writer.

18⎕ Mathematical ideas are presented in the author’s own way (as opposed to coping someone else’ theory).

19⎕ The author’s voice is evident in the work. 20⎕ The results are related to the author’s life in a meaningful way.

**Reflection**

21⎕ Asks questions, makes conjectures and investigates mathematical ideas.

22⎕ Connects the relevance of the results to the aim. 23⎕ Discusses the implications of the results.

24⎕ Considers the significance of the paper. 25⎕ States possible limitations and/or extensions of the topic.

26⎕ Explains whether result is reasonable or realistic.

**Use of mathematics**

27⎕ Explores unfamiliar math, or applies familiar math to a new situation.

28⎕ Creates mathematical models for real-world situations, if this applied to the topic.

29⎕ Applies problem-solving techniques. 30⎕ Looks for and explains patterns, if this applied to the topic.

31⎕ Shows at least one sample work for each type of calculation. 32⎕ Use of math is relevant to the topic.

33⎕ The math is correct. How do you know? State how results were validated:

34⎕ The math used is sophisticated (challenging, considers different mathematical perspectives, or links different areas of math).

35⎕ The math is presented with rigor (clear, logical, well-reasoned, no gaps). 🡨34 must be earned first!