IB MATH SL IA 1st Draft Checklist

**Communication & Mathematical presentation**

⎕ Did you start with an introduction?

⎕ Do you have a clearly written aim and rationale?

⎕ Does the entire paper focus on the aim and avoid irrelevance? Don’t go off on a tangent.

⎕ Does the writing flow nicely?

⎕ Is your exploration coherent? (logically organized, understandable, having clarity)

⎕ Did you include graphs, tables and diagrams at appropriate places and not attach them all at the end?

⎕ Have you had someone (not a student in Math SL) edit your paper?

⎕ Did you cite all references in your bibliography and acknowledge direct quotes appropriately?

⎕ Did you use appropriate mathematical language and representation? (No computer notation \*, ^, etc)

⎕ Did you define key terms where necessary?

⎕ Did you use appropriate technology?

⎕ Did you think about the degree of accuracy? (For your topic, how many decimal places are relevant?)

⎕ Did you end with a conclusion and relate it back to your aim and rationale?

⎕ Do you have page numbers?

⎕ Did you use 12 point Times New Roman, double-space, one inch margins, print on one side, and include a cover page?

**Use of mathematics**

⎕ Did you explore unfamiliar math, or apply familiar math to a new situation?

⎕ Did you create mathematical models for real-world situations, if this applied to your topic?

⎕ Did you apply problem-solving techniques?

⎕ Did you look for and explain patterns, if this applied to your topic?

⎕ Did you show how your math is relevant to your topic?

⎕ Did you provide evidence of your analytical process (e.g., sample calculations)?

**Reflection**

⎕ Did you ask questions, make conjectures and investigate mathematical ideas?

⎕ Did you consider the historical and global perspectives of your topic?

⎕ Did you discuss the implications of your results? (What do they mean? Why are they important?...)

⎕ Did you consider the significance of your paper?

⎕ Did you look for possible limitations and/or extensions of your topic?

⎕ Did you make links between your topic and different fields and/or areas of mathematics?

**Personal engagement**

⎕ Did you ask and answer personal questions (“I wonder if…, What if…)?

⎕ Did you try to think independently and creatively?

⎕ Did you address why you think your topic is interesting or why it appealed to you?

⎕ Did you present mathematical ideas in your own way (as opposed to copy someone else’s theory)?

⎕ Did you try to add “your voice” to the work?

⎕ Did you relate the results to your own life?