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| **Math SL – Outline Topic Form** |
| *This form should be completed and turned into the teacher by* ***Friday, May 26****.* |
| **Name:** |
| **IA Topic Title:** |
| **Introduction Paragraph:**   1. Introduction of topic & the rationale for choosing the topic - include why you are interested in the topic *(personal engagement).\** 2. Include any necessary background information.\* 3. Clearly state the topic and the goal of your paper *(paper must reflect the goal – goal clearly spells out what steps you will take).\** |
| **Body Paragraph 1:**   1. How are you going to collect your data? Or explain where you obtained your data. How do you know that your data is reliable? Why did you only collect this amount of data?\*   E.g. interviews, observations, questionnaires, constructing diagrams, playing games, experimenting.  From: school, home, shops, journeys, newspapers, magazines, books, libraries, photographs, television, video, the internet, etc.   1. Presenting your raw data.\* 2. Organize your raw data into tables and graphs. 3. Discussion of what the data reveals and what it leads you to do. |
| **Body Paragraph 2:**  **Which mathematical processes are you going to use?**  E.g. sequences and series, inequalities, sets, Venn diagrams, logic, truth tables, trigonometry, 2-D and 3-D shapes, scatter diagrams, lines of best fit, frequency tables, graphs, percentiles, measures of central tendency and dispersion, probability, chi-squared test, correlation coefficients, functions, currency conversions, interest, loan schemes, modeling, etc.   1. Transition sentence – explain that the data has lead you to use this math process. 2. Explain the math process and what you hope to achieve with this process. 3. Define necessary math terms before discussing the math process. 4. Clearly and thoroughly explain the math process. 5. Reflect on the math process. Discuss what the math process reveals (implications). Was there something you could have done differently to make the process better? Did the outcome of the math process lead you to try another method? (If so, do the second math process.) Reflect on possible limitations of your IA. Make links to different areas of math. |
| **Conclusion Paragraph:**   1. Restate your goal and how the IA has helped you to achieve your goal. 2. End with what this IA has prompted you to do next or to explore next. |

Teacher's signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student's signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent / Guardian Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_