**the Exploration proposal sheet IB Mathematics Higher Level**

student’s name:

|  |
| --- |
|  |

topic chosen (one only):

|  |
| --- |
|  |

why this topic? Give reasons that support your choice. ($\rightarrow $ rationale)

|  |
| --- |
|  |

What is your aim? What do you want to show / check / find out by your Exploration? (Do you want to find an answer to a question? Or maybe you want to prove something?)

|  |
| --- |
|  |

What mathematical topics you expect to cover in your assignment? (Algebra, trigonometry, geometry, derivatives, integrals, matrices, vectors, probability, statistics…) Be as specific as possible. Give the topic and the way your exploration is going to address it.

Start from the topics from the HL syllabus:

|  |
| --- |
|  |

and then these out of the syllabus:

|  |
| --- |
|  |

What skills will you need for writing the exploration? (i.e integrating, solving equations in complex numbers.

Start from the skills that you have:

|  |
| --- |
|  |

and then these that you need to learn:

|  |
| --- |
|  |

What software / technology tools will you use? What will you use them for?

|  |
| --- |
|  |

List all resources that you have found on the topic. Both these that you have already used and these that you are likely to use in future. These maybe websites, books, articles, magazines…

|  |
| --- |
|  |