**BEFORE starting, please check *Form 4 attachments*.**

Form 4

**Section 1. Mathematics problem solving**

Candidates must submit evidence of mathematics-related problem solving. This work needs to incorporate the following guidelines:

* The work can be from assignments or tests you submitted over the last year for schoolwork or independent work. Alternatively, an original work may be performed for the purpose of this application.
* The work is related to one or more of the following fields: functions, geometry, probability, or statistics.
* The work shown includes at least one of the formulae from the *Formula Booklet* *(Form 4 attachment 2).*

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| Field of mathematics used (please circle at least one):  functions geometry probability statistics | Number(s) of formula used: |
| Submit your working and solution to a problem here. When submitting work completed prior to this application, you may submit up to two A4 sheets as an attached file. However, the header information, “Field of mathematics used” and “Number(s) of formula used”, must be filled out regardless. | |
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| Please use this page if you require more space for section 1. |
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**Section 2. Mathematics inquiry-based report**

Form 4

Candidates must submit evidence of a mathematics-related inquiry-based report. This report needs to incorporate the following guidelines.

* Your work must be original.
* The report can be one that you have written in your mathematics studies over the last year, or you can create a new mathematic report for this application.
* The report is related to one or more of the following fields: functions, geometry, probability, or statistics.
* The report includes at least one of the formulae from the *Formula Booklet (Form 4 attachment 2).*
* The report is structured with reference to either the mathematical inquiry descriptors or mathematical modelling descriptors. *(Form 4 attachment 3)*

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| Field of mathematics used (please circle at least one):  functions geometry probability statistics | Number(s) of formula used: |
| The report must not exceed 5 A4 pages. This report can be attached as a separate PDF file or you can use the provided space in this document. However, the header information, “Field of mathematics used” and “Number(s) of formula used”, must be filled out regardless.  **Please list all references used in your report below (Please start your report on the following page if using this form for submission).** | |
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| **Please start writing your mathematics report from this page onwards up to a maximum of 4 pages.** |
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**Section 3. Inquiry-based report**

Form 4

Candidates must submit evidence of an Inquiry-based report. This report needs to incorporate the following general guidelines.

* Your report must be original.
* The report can be one that you have written in your studies over the last year, or you can create a new report for this application.
* The report must include:
  + **Research Title**
* write an inquiry question that explores your research idea/thesis
  + **Introduction**
* describe background information
* explain thesis statement and/or a hypothesis
* explain your motivation and interests for conducting this research
  + **Planning and design section**
* describe, control, and justify your method
  + **Analysis Section**
* present your evidence (data, images, arguments, interview summaries, survey summaries, charts, graphs, etc…)
* analyze your evidence
  + **Evaluation and conclusion:**
* evaluate and reflect on the research
* describe improvements to the overall research
  + **References Section:**
* list all references.
* The report must not exceed 8 A4 pages.
* The report can be attached as a separate PDF file or you can use the provided space in this document.

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| **Please list all references used in your report below (Please start your report on the following page if using this form for submission).** |
| **References Section:** |

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| **Please start writing your inquiry report from this page onwards up to a maximum of 7 pages.** |
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