Mathematical Studies

Internal Assessment

Purpose: This project enables the student to demonstrate the application of their skills and knowledge, and to purse their personal interests, without the time limitations and other constraints that are associated with written examinations.

Internal assessment in mathematical studies SL is an individual project. This is a piece of written work based on personal research involving the collection, analysis and evaluation of data. It is marked according to seven assessment criteria. Group work cannot be used for projects. Each project is an individual piece of work based on different data collected or measurements generated. Historical projects that reiterate facts but have little mathematical content are not appropriate and will not be accepted.

Guidelines:

Each student will complete the following by the given due dates.

1. Initial Proposal: due March 21, 2013
2. Collection/Research of data: due May 2, 2013
3. First draft of written work: due TBD
4. References cited: due TBD
5. Final draft: due TBD

Initial Proposal: You will need to provide a title which suggest what the project will be about. This proposal will give a statement of the task and a detailed plan for completing it. This will include the mathematical applications you will be using. This is subject to approval. Please keep in mind that you need to collect/research data that will be conducive to higher level mathematical processes.

Written Work: This project is worth 20% of your IB mathematical studies assessment. It will not exceed 2,000 word and take approximately 25 hours to complete. You will need to provide a cover sheet on your final project. You can use resources to improve your project.

Assessment Criteria:

Criterion A: Introduction (3)

The project contains a title, clear statement of task and a detailed plan that is followed.

Criterion B: Information/measurement (3)

The project contains relevant information collected or relevant generated measurements.

Criterion C: Mathematical processes (5)

At least two simple mathematical processes have been carried out correctly. All processes used are relevant. The simple mathematical processes must be relevant to the stated aim of the project.

Criterion D: Interpretation of results (3)

The project contains a meaningful discussion of interpretations and conclusions that are consistent with the mathematical processes used. You will need to produce a discussion of the result obtained and conclusions drawn based on the level of understanding reasonably expected from a student mathematical studies SL.

Criterion E: Validity (1)

There is an indication, with reasons, if and where validity plays a part in the project. There is discussion of the validity of the techniques used or recognition of any limitations that might apply.

Criterion F: Structure and communications (3)

The project has been well structured in accordance with the stated plan and is communicated in a coherent manner. The project would be expected to read well, and contain footnotes and bibliography, as appropriate. The project must be focused and contain only relevant discussions.

Criterion G: Notation and Terminology (2)

The project contains correct mathematical notation and terminology throughout. If it is a simple project requiring little or no notation and/or terminology, the project cannot attain a high score.

The project is worth 20 points but equals 20% of your assessment grade.

Resources:

Textbook p. 13-15

Mrsriegels.weebly.com Click on the DP tab and click on Mathematical Studies Project