

IA Criteria

G9 Math Extended

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Statistics Project

Due Date: Friday, May 28th at the start of class

In this project, you will conduct a personal research involving the collection, analysis and evaluation of data. Your task is to write an essay (maximum 5 pages, word processed and a minimum of size 11 font, in Times New Roman, 1.15 spacing) including the following steps/components described below.

Your essay must contain:

- ☐ a title
- ☐ a statement of the task (aim) and plan
- ☐ measurements, information or data that have been collected and/or generated
- ☐ an analysis of the measurements, information or data
- ☐ interpretation of results
- ☐ discussion of validity including:
 - o any limitations in your data and/or method of data collection
 - o purpose and appropriateness of each statistical process used
- ☐ appropriate notation and terminology.

Recommended approach:

Step1:

Decide upon the factor to be investigated and another factor that might influence it. Discuss your task and plan with your teacher.

Step 2:

Collect the data.

Step 3:

Create visual representation of data. This should give you some indication as to the direction of the project.

Step 4:

Analyze data using appropriate statistical processes.

You will be assessed on the following 4 criteria which are explained in detail on the next few pages.

A03 Criterion A Introduction 3 marks Total marks: 11 marks

Criterion B Information/measurement 3 marks

Criterion C Structure and communication 3 marks

Criterion D Notation and terminology 2 marks

Be sure to carefully read the criteria description in the two handouts so that you know how you will be assessed.

Criterion A: Introduction

In this context, the word “task” is defined as “what the student is going to do”; the word “plan” is defined as

“how the student is going to do it”. A statement of the task should appear at the beginning of each project. It is expected that each project has a clear title.

Criterion B: Information/measurement

In this context, generated measurements include those that have been generated by computer, by observation,

by prediction from a mathematical model or by experiment. Mathematical information includes geometrical

figures and data that is collected empirically or assembled from outside sources. This list is not exhaustive

and mathematical information does not solely imply data for statistical analysis. If a questionnaire or survey is

used then a copy of this along with the raw data must be included.

Criterion C: Structure and communication

The term “structure” should be taken primarily as referring to the organization of the information, calculations

and interpretations in such a way as to present the project as a logical sequence of thought and activities

starting with the task and the plan, and finishing with the conclusions and limitations.

Communication is not enhanced by a large number of repetitive procedures. All graphs must be fully labelled

and have an appropriate scale.

It is not expected that spelling, grammar and syntax are perfect, and these features are not judged in assigning

a level for this criterion. Projects that are very poor linguistically are less likely to excel in the areas that are important in this criterion. Projects that do not reflect the significant time commitment required will

not score highly on this assessment criterion.

Criterion D: Notation and terminology

This criterion refers to the use of correct terminology and mathematical notation. The use of calculator or

spreadsheet notation is not acceptable.

