


SCOPE & SEQUENCE
GR. 9 – MATH

Student Task
GRADE 9: Math

STRAND: Statistics and Probability (Data Analysis)

TASK: Data Analysis Using Spreadsheets and Scatterplots

PRODUCTIVITY TOOL: Spreadsheet

TIMELINE: 2 Classes (1 for spreadsheet, 1 for data analysis)

LEVEL OF DIFFICULTY: ☺ Easy

The students will determine the relationship between the height and weight of an animal based on given data. Using a spreadsheet, they will create a scatter plot chart, with line of best fit, in an effort to justify their conclusion regarding their investigation. They will conclude their experiment with a discussion regarding the strengths and weaknesses of reporting statistical information.



ICT Outcomes
The learner will:

- C1** 3.5 analyze and synthesize information to create a product
- 3.6 communicate in a persuasive and engaging manner, through appropriate forms, such as speeches, letters, reports and multimedia presentations, applying information technologies for content, audience and purpose
- C7** 3.1 identify patterns in organized information
- 3.2 make connections among related, organized data, and assemble various pieces into a unified message
- F1** 3.1 demonstrate an understanding that information can be transmitted through a variety of media
- 3.3 apply terminology appropriate to the technology being used at this division level
- 3.4 demonstrate an understanding that digital technology follows a logical order of operations
- 3.8 demonstrate an understanding that technology is a process, technique or tool used to alter human activity
- F2** 3.2 identify potential technology-related career paths
- 3.6 explain ways in which technology can assist in the monitoring of local and global environmental conditions
- F4** 3.2 understand the nature of various media and how they are consciously used to influence an audience
- 3.3 identify specific techniques used by the media to elicit particular responses from an audience
- P2** 3.2 design, create and modify a spreadsheet for a specific purposes, using functions such as SUM, PRODUCT, QUOTIENT and AVERAGE
- 3.3 use a variety of technological graphing tools to draw graphs for data involving one or two variables
- 3.4 use a scientific calculator or a computer to solve problems involving rational numbers






Curriculum Outcomes

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General Outcome

-  Collect and analyze experimental results expressed in two variables, using technology as required.

Specific Outcomes #1, 2, 3, 4, 5, 6 and 7

1. Design, conduct and report on an experiment to investigate a relationship between two variables.
2. Create scatterplots for discrete and continuous variables.
3. Interpret a scatterplot to determine if there is an apparent relationship.
4. Determine the lines of best fit from a scatterplot for an apparent linear relationship, by:
 - inspection
 - using technology
5. Draw and justify conclusions from the line of best fit.
6. Assess the strengths, weaknesses and biases of samples and data collection methods.
7. Critique ways in which statistical information and conclusions are presented by the media and other sources.

