**GENERAL INTEGRATED SCIENCE– UNIT 1**

**TASK 1 – Scientific Method Extended Response**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ WEIGHTING: 7.5%**

**DUE DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ MARK: \_\_\_\_\_\_ / 60 =**

The following assessment is comprised of two parts.

* Part 1 – one-week take home research and presentation (50%)
* Part 2 – in-class scientific article analysis (50%)

**Part 1**

Your task is to create a tool to teach your friend about the scientific method. You can make a poster, give an oral presentation, or create a digital tool like an animation, video or a podcast. Using this tool, you must:

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| --- | --- |
| Explain how to write a good hypothesis, including an example for your friends ‘*time exercising and body temperature*‘ experiment | **/4** |
| State how to tell the difference between the independent and dependent variable, including the examples for your friends ‘*time exercising and body temperature’* experiment | **/4** |
| Describe what controlled variables are, why they must be controlled and state two example controlled variables for your friends ‘time exercising and body temperature’ experiment | **/5** |
| Explain what makes a great methods section, and design a method section for their ‘time exercising and body temperature’ experiment | **/8** |
| Describe how your friend could increase the reliability of their results | **/2** |
| Discuss the difference between valid and reliable data | **/2** |
| State what kind of graph your friend would use for their data from the *‘*time exercising and body temperature experiment’, and explain why that type of graph is needed | **/2** |
| State an appropriate title for their graph | **/2** |

You must also include a bibliography or reference list to show all of the information sources you used to create your tool *(1 mark).*

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**Part 2: In-Class Article Analysis**

**Read through the attached lab report.**

1. State the aim of this research *(1 mark)*

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1. State the: *(2 marks)*
   1. Independent variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Dependent variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Reread the controlled variables. State two other variables that would have to be controlled for this experiment, and explain why they must be controlled. *(3 marks)*

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1. Reread the hypothesis. Explain why this is not a very good hypothesis for this experiment *(1 mark)*

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1. Create a new hypothesis for this experiment that is more appropriate *(1 mark)*

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1. State two ways to improve the reliability of this experiment. *(2 marks)*

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1. Observe the graph in the report. In the space below, analyse the quality of the graph included in this experiment. *(3 marks)*

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1. In the table below is the raw data from this experiment. On the grid, draw an appropriate table for this data. *(5 marks)*

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| **Day** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| *Average weight (grams)* | 144 | 143 | 144 | 139 | 141 | 138 | 137 | 139 | 138 | 140 |

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1. Read through the conclusion of the experiment. Describe whether the researchers made the right conclusions from their data. *(3 marks)*

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1. In the space below, discuss whether this article is a reliable source of information. *(4 marks)*

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**Read through the attached magazine article.**

1. In the space below, discuss whether this magazine article is a reliable source of science information. *(3 marks)*

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1. Describe why the language used in the magazine article would not be appropriate in a lab report. *(2 marks)*

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