**Part B: In Class Validation**

To complete Part B students are allowed the task sheet and the report they have completed for Part A.

**Complete the remainder of the scientific report under test conditions.**

**Analysis and evaluation** (15 marks)

* describe the trend and/or pattern in your data
* state how your data relates to your hypothesis
* use your knowledge and understanding to explain the trend and/or pattern of your results
* comment on the reliability and accuracy of the data collected
* list **two** limitations in the data collection strategy that may have affected the reliability of your data and comment on how they would have affected it
* list **two** improvements you could make to the data collection strategy to improve your investigation

**Conclusion**  (2 marks)

* summarise your findings and comment on the reliability and validity of the outcome of the investigation

The following questions relate to the Investigation you conducted for task 4.

1. State the hypothesis for your experiment. (2 marks)

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2 Did your experiment have a control group? Explain the role of a control group?

(2 marks)

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3 Do you consider your results to be reliable? What evidence did you use to make this decision? Discuss one way you could improve the reliability of your investigation?

(3 marks)

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4 State 3 variables you controlled during the experiment. (3 marks)

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Above is a procedure for a temperature investigation.

5 Why did the Scientists make sure all subjects were not suffering from any medical conditions? (2 marks)

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6 Use an annotated diagram to explain the physiological responses that occurred when you exposed your subjects to high temperatures. (10 marks)