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| Year 10 Science  **Task 1: Pendulums Investigation**  Science Inquiry 7.5% | Name: |  |
| Due: |  |



In groups of 3, plan and conduct the following investigation:

***Determine the effect of one of the following factors on the time taken for a pendulum swing: length of pendulum, height of pendulum drop, mass of pendulum …***

Individually, write a laboratory report for the experiment.

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| Introduction | * Review of current scientific knowledge * Background information | 2 |  |
| Aim and Hypothesis | * Aim is clear and concise * Hypothesis relates independent and dependent variables | 2 |  |
| Equipment and Procedure | * Procedure is detailed and specific * Diagram is scientific, neat, labelled, captioned and appropriately sized * Safety and ethics considered | 3 |  |
| Variables | * Independent variable is numerical, incremental and includes units of measurement. * Dependant variable is clear and includes units of measurement * 3 controlled variables identified * 1 uncontrolled variable identified | 4 |  |
| Results | * Table includes title which relates variables * Columns relate to independent and dependent variables and include headings with units * Repeat trials or replicates, averages | 3 |  |
| Graph | * Graph title relates variables * Graph type appropriate for data * Axis correct orientation and labelled, including units * Appropriate size and scale | 4 |  |
| Discussion | * Results summarised and patterns identified * Explanation of results using scientific knowledge and terminology * 3 sources of error or inaccuracy identified * Specific suggestions for improvement or further experimentation | 4 |  |
| Conclusion | * Summary of findings * Hypothesis supported or not | 2 |  |
| References | * At least 2, in correct format | 1 |  |
|  |  | Total /25 |  |