

[illegible]

Procedure	<p>Procedure, apparatus, safety, data collection/observations</p> <ul style="list-style-type: none"> Safety precautions required for this investigation Procedures followed in the investigation Recorded data/observations 	20	<p>Safety: Identify any <i>two specific</i> safety precautions followed in conducting the investigation</p> <p>Procedure: <u>State or Show</u> Identify any <i>five</i> steps taken in conducting investigation: Mass (weigh) block // block on surface // zero spring balance // attach spring balance (force sensor) to block // attach string to block // pass string over pulley // attach slotted weight set to string // tension elastic fixed amount // pull spring balance (force sensor) to move block at constant speed <i>or</i> to a point at which it is just about to move // add weights to string to give same effect // release elastic causing block to move // record force (weight on string), (distance travelled by block) // repeat to verify data // repeat with different weights on block (stack blocks) // area of contact of block with surface // texture of surface on which block moves // repeat procedure to verify second factor // record data // present data (table, graph)</p> <p>Recorded Data / Observations: Factor 1 <i>versus</i> force Factor 2 <i>versus</i> force [Table presentation likely]</p>	<p>(3 + 2)</p> <p>(3 + 3 + 2 + 1 + 1)</p> <p>(3)</p> <p>(2)</p>
Analysis & Conclusions	<ul style="list-style-type: none"> Calculations/data analysis Conclusion(s) and evaluation of results(s) 	20	<p>Calculations / Data analysis: <i>One</i> relevant comment analysing data or calculation or graph</p> <p>Limited manipulation of data OR Good manipulation of data OR Excellent manipulation of data</p> <p>Conclusion: <i>One</i> relevant conclusion drawn and evaluation of results obtained</p> <p>Limited treatment OR Good treatment OR Excellent treatment</p>	<p>(4)</p> <p>(7)</p> <p>(10)</p> <p>(4)</p> <p>(7)</p> <p>(10)</p>
Comment	Comments (e.g. refinements, extensions, sources of error etc.)	10	<p><i>One</i> comment on refinement / extension / source of error reliability of data / how process could be improved / sources of error / possible reason for unexpected result / possible extension of the investigation</p> <p>Limited comprehension OR Good comprehension OR Excellent comprehension</p>	<p>(4)</p> <p>(7)</p> <p>(10)</p>

OWN INVESTIGATION – Marking Criteria for Coursework B

Guide to mark assignment				
Section	Aims		Total Mark	O.L.
Introduction	Clear statement of the problem/topic to be investigated, background research undertaken in preparation for the investigation: people, books, websites, etc. as sources of relevant information.	10	Statement / identification of problem / hypothesis statement / topic to be investigated: (must elaborate on title) Research: Any <i>two</i> references to book / web / person consulted etc (must qualify why this person was a suitable consultant)	(6) (2 × 2)
Preparation and planning	Identification of variables and controls List of equipment needed for the investigation List of tasks to be carried out during the investigation	40	Variables & Controls*: Identify any <i>four</i> variables / controls: Must include two essential variables with respect to title. Any two other relevant variables Equipment needed: Identify any <i>five</i> pieces of equipment used List of tasks: Identify any <i>three</i> tasks carried out in investigation * If variables/controls not relevant to the type of investigation undertaken allow 10 marks for stating so and then readjust equipment to (5 × 3) and tasks to (3 × 5)	(2 × 6) (2 × 4) (5 × 2) (4 + 4 + 2)
Procedure	Procedure, apparatus, safety, data collection/observations <ul style="list-style-type: none"> ▪ Safety precautions required for this investigation ▪ Procedures followed in the investigation ▪ Recorded data/observations 	40	Safety: Identify any <i>two</i> safety precautions followed in conducting the investigation Procedure: State <u>or</u> Show Identify any <i>eight</i> steps taken in conducting investigation Recorded Data / Observations: Identify any <i>two</i> points related to method used [Table presentation likely]	(2 × 3) (8 × 3) (2 × 5)
Analysis & Conclusions	Analysis <ul style="list-style-type: none"> ▪ Calculations/data analysis ▪ Conclusion(s) and evaluation of results(s) 	40	Calculations / Data analysis: <i>Two</i> relevant comments analysing data or calculation or graph Limited OR Good OR Excellent manipulation of data Conclusion: <i>Two</i> relevant conclusions drawn and evaluation of results obtained Limited treatment OR Good treatment OR Excellent treatment	(4) } (7) } × 2 (10) } (4) } (7) } × 2 (10) }
Comment	Comments (e.g. refinements, extensions, sources of error etc.)	20	Four comments on refinements / extensions / sources of error e.g. What was learnt* / reliability of data / how process could be improved / sources of error / extension of investigation / possible reason for unexpected result * Other than conclusions already stated	(5 + 5 + 5 + 5)