

Physics Investigation (AH) Verification Worksheet

Centre: _____ Centre No: _____ Candidate: _____

Outcome 1 *Develop a plan for an investigation*

Performance Criteria	Suggested Items	Evidence	No/Insufficient Evidence	Notes
(a) A record is maintained in a regular manner	The entries can be brief and need not be structured paragraphs. Notes entered regularly. Clear statement of aim(s) and or purpose(s) of investigation. Notes/comments on ideas rejected. Contributions made by others should be entered, e.g. teacher.	<input type="checkbox"/>	<input type="checkbox"/>	
(b) Experimental and observational techniques and apparatus are appropriate for the investigation.	Notes/comments on planning and design should be entered. Notes/comments on selection of method(s) used should be entered.	<input type="checkbox"/>	<input type="checkbox"/>	

Outcome 2 *Collect and analyse information obtained from the investigation*

Performance Criteria	Suggested Items	Evidence	No/Insufficient Evidence	Notes
(a) The collection of the experimental information is carried out with due accuracy.	The collection of the information is the individual work of the candidate The information is collected with due accuracy.	<input type="checkbox"/>	<input type="checkbox"/>	
(b) Relevant measurements and observations are recorded in an appropriate format.	Readings or observations are recorded in a clear table which must include: <i>correct headings</i> <i>appropriate units</i> <i>correctly entered readings/observations.</i>	<input type="checkbox"/>	<input type="checkbox"/>	

Performance Criteria

Evidence

No/Insufficient Evidence

Notes

(c) Recorded Experimental information is analysed and presented in an appropriate format.

Readings should be analysed and presented in tabular or graphical form as appropriate:

Tabular can be extension of table for PC(b) and **must** include:
suitable headings & unit
ascending or descending independent variable
appropriate computations

OR
 Graphical presentation **must** include:
graph with independent and dependent variables plotted on appropriate axes
graph with suitable scales and axes labelled with quantities and units
graph with data correctly plotted, with error bars (if appropriate), and with line/curve of best fit.

(d) Uncertainties are treated appropriately.

Depending on the activity the following should be included **as appropriate**:
calibration, reading and random uncertainties
combination of individual uncertainties
uncertainty in the numerical value of a measured quantity
uncertainties estimated from a straight line graph.

Evidence of marking by teacher/lecturer

Evidence of internal verification

Issues Identified / No Issues Identified

Verifier's Signature _____

