

Physics B (Advancing Physics)

OCR Advanced GCE 7888 Unit 2863 Practical Investigation Coursework Assessment Form

Examination session	January/June*	* delete as appropriate				Year	2	0	0	
Centre name										
Centre number										
Candidate name						Candidate number				

A copy of this sheet must be attached to each candidate's work as a record of the assessment. The full criteria on which the assessment should be based can be found in the Teacher Support: Coursework Guidance.

Initiative and independence:	A	<p>Problem: There is clear analysis of the problem. Appropriate variables are selected for investigation.</p> <p>Independence: Personal responsibility was taken for plans and decisions</p>	<p>The definition of the problem is sound but lacks some detail</p> <p>A reasonable plan was made</p> <p>The student's own ideas are sound, and advice given was acted upon</p>	<p>The problem has been defined in simple terms</p> <p>Some evidence of planning</p> <p>Help and advice given were usually acted upon.</p>	<p>Use of resources: To good effect; advice and resources were well used</p> <p>Experimental design: Careful choice of approach, methods and techniques</p> <p>Safety: Safety was given due regard.</p>	<p>Some resources put to good use</p> <p>Apparatus, methods and techniques are adequate</p> <p>Some attempt is made to address safety</p>	<p>Required direction</p> <p>Simple apparatus used in a direct way</p> <p>Safety measures are somewhat basic</p>	(i) /5	(ii) /5	
	B	<p>In devising the strategy: Knowledge of physics is used to inform decisions about the progress of the investigation</p> <p>Experiments: A good range of experiments, showing progression and development. The potential of the experimental work has been fulfilled</p>	<p>Some knowledge of physics was used in planning but some work was empirical</p> <p>A related set of experiments is used, or some aspects of one experiment are investigated. Some of the potential of the work has been developed</p>	<p>The work was largely empirical</p> <p>Experimental work relates to the task, but is limited in certain important respects</p>	<p>In executing experiments: Practical knowledge and skill are put to good use</p> <p>Experimental design: There is evidence of experimental design</p> <p>Effects: Effects that might affect results are seen and dealt with</p>	<p>Some practical skill is shown; the work is competent</p> <p>There is some evidence of experimental design</p> <p>Effects that might affect results are commented upon</p>	<p>Apparatus used in a direct way</p> <p>Little knowledge of physics is brought to bear</p> <p>Effects that might affect results are not considered</p>	(i) /5	(ii) /5	
Additional comments to support and explain ratings A and B										

Communication	<p style="text-align: center;">C</p> <p>(i) Record of observations</p> <p>(ii) Quality of report</p>	<p>Observations: Observations and measurements made with appropriate precision The number and range of results are appropriate</p>	<p>Observations are recorded clearly. The number and range of results are satisfactory</p>	<p>Observations are those expected for the task, but may be lacking in detail, range or precision</p>	<p>Presentation: The report is well structured and presents results with impact and clarity</p>	<p>Work is generally neat and orderly</p>	<p>The report is essentially a summary of the work done</p>
		<p>Record of observations: The collection and recording of data are well organised</p> <p>Uncertainties: The limitations on accuracy, are appreciated. Steps are taken to minimise uncertainties</p>	<p>The collection and recording of data are satisfactorily achieved</p> <p>Some steps are taken to minimise uncertainties</p>	<p>Tables of results lack significant details</p> <p>Little attempt has been made to reduce uncertainties</p>	<p>Graphs and tables: Graphical plots are well-chosen, to display results effectively. Graphs and tables are correctly labelled</p> <p>Use of English: The quality of English is good</p>	<p>Graphs are basic, neat and without distracting elements. Attempts are made to choose the most appropriate plots</p> <p>The quality of English is acceptable</p>	<p>Tables and graphs are presented, perhaps without much comment</p> <p>The quality of English just adequate</p>
Evaluating evidence and drawing conclusions	<p style="text-align: center;">D</p> <p>(i) Evaluation</p> <p>(ii) Conclusions</p>	<p>Analysis: The results are well analysed, to reveal the underlying relationships</p>	<p>General trends in the data are established using appropriate techniques</p>	<p>There is some attempt to identify trends in the data, but the analysis lacks depth</p>	<p>Critical thought: The work shows evidence of critical and connected thought</p>	<p>The work shows progression and development</p>	<p>The work lacks relevance</p>
		<p>Relationships: Relationships proposed are consistent with the evidence and supported by underlying principles</p> <p>Discrepancies: Discrepancies or anomalies are dealt with. Error bars may have been used effectively on graphs to reflect the uncertainties</p> <p>Limitations of methods: The limitations of the experimental procedures used are fully appreciated</p>	<p>Relationships proposed are consistent with the evidence.</p> <p>Some discrepancies are commented upon</p> <p>The main limitations of the experimental procedures are appreciated</p>	<p>Expected relationships are assumed to be present though they may be unsupported by the evidence</p> <p>Discrepancies are largely ignored</p> <p>There is little awareness of the limitations of the experimental procedures used</p>	<p>Physics: Qualitative results are interpreted with care and insight. Basic errors in physics are avoided</p> <p>Conclusions: The uncertainties inherent in the data are reflected appropriately by the tentative nature of the conclusions</p> <p>The work is interesting, achieving results new to the student</p>	<p>Results are given some physical interpretation, even if this reveals minor misunderstandings. There are few errors in basic physics</p> <p>Conclusions, though supported by the evidence, may not be qualified as necessary</p>	<p>The work is largely empirical with little attempt to interpret the physics</p> <p>Conclusions, which may be qualitative, are limited and focus on the more obvious results</p>
RATING TOTAL					/40		
Additional comments to support and explain ratings C and D.							
Assessors signature :				Date :			