

Physics B (Advancing Physics)

OCR Advanced Subsidiary GCE 3888 Unit 2862 Instrumentation Task Coursework Assessment Form

Examination session	January/June* *delete as appropriate	Year	2	0	0	
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Centre name	
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Centre number					
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Candidate name	Candidate number
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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>(i) Planning</p> <p>(ii) Use of resources and safety</p>	<p>Choice: Interesting and challenging</p> <p>Plan: Detailed with alternatives considered</p> <p>Approach: Independent and acted on advice; any difficulties dealt with</p> <p>Completion: All aspects</p>	<p>Suitable</p> <p>Straightforward no alternatives</p> <p>Independent, any difficulties overcome with help</p> <p>Most aspects</p>	<p>Simple</p> <p>Simple plan developed with help</p> <p>Problems recognised with help</p> <p>Partial</p>	(i) /5	(ii) /5	<p>Use of resources: To good effect</p> <p>Experimental design: Careful choice of equipment, methods and techniques</p> <p>Safety Safety was given due regard</p>	<p>Some resources put to good use</p> <p>Equipment, 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>
Use of physics	B	<p>(i) Devising a strategy</p> <p>(ii) Practical skills and techniques</p>	<p>In devising the strategy: It is clear that a sound knowledge and understanding of the relevant physics has been used</p> <p>Preparation: The approach has been thoughtful; e.g. rough calculations guided progress</p>	<p>Some knowledge and understanding of physics has been used</p> <p>Straightforward effects were anticipated, perhaps only qualitatively</p>	<p>The approach is largely 'try it and see'</p> <p>There was little advance preparation</p>	(i) /5	(ii) /5	<p>In executing experiments: Practical knowledge and skill are put to good use</p> <p>Conflicts: Interfering effects are seen and dealt with</p>	<p>Some practical skill is shown; the work is competent</p> <p>Interfering effects are commented upon</p>	<p>Some construction of a system; part of the system worked</p> <p>Effects that might affect results are not considered</p>

Communication	C (i) Record of observations (ii) Presentation of report	Observations: Observations and measurements made with appropriate precision	Most effects were observed and recorded	An incomplete record of the observations	Structure: Well structured report; evidence of connected thought	Some structure, the report describes the task well	There is a description of the activities undertaken	
		Record of observations: Observations recorded methodically in appropriately labelled tables	Tables of results were present but in some cases not correctly labelled	Tables of results lacked significant details	Presentation: Tables and graphs chosen to display results meaningfully	Tables and graphs used to communicate results	The meaning of tables and graphs may not be clear	
				(i) /5	(ii) /5	Use of English: The quality of English is good	The quality of English is acceptable	The quality of English is just adequate
Analysis	D (i) Systematic measurement (ii) Fitness for purpose of system	Measurements: Sensible range of measurements taken methodically	Fair range, in reasonably organised way	Some measurements made	Fitness for purpose: Relevant qualities of fitness for purpose are considered and explored	Some aspect of the fitness for purpose of the system is explored, or tested	There is some reference to the properties of the sensor, or instruments, used	
		Accuracy: Repeat readings as necessary, recorded to appropriate precision. Any anomalies noted and checked or discussed	Limited cross-checking of measurements	Accuracy assumed	<i>These qualities might include resolution; response time; systematic bias; systematic drift; sensitivity; random variation.</i>			
				(i) /5	(ii) /5			
RATING TOTAL				/40				
Assessors signature :				Date:				

Additional comments:

INSTRUCTIONS FOR COMPLETION OF THESE FORMS

- 1 Each of these forms should be completed for each candidate for each of parts (a), (b) and (c) of this unit.
- 2 Please ensure that the appropriate boxes at the top of the forms are completed.
- 3 Enter the mark awarded for each coursework task in the appropriate box.
- 4 Add the marks for all the coursework tasks together to give a total out of 40.
- 5 Sign and date the forms.