

# Physics B (Advancing Physics)

OCR Advanced Subsidiary GCE 3888 Unit 2862 Making Sense of Data  
Coursework Assessment Form

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

<b>Initiative and independence</b>	<b>A</b>	<p><b>Approach:</b> Works independently, showing initiative</p> <p><b>Initial analysis:</b> Critical thought is given to the data. The student chooses what to calculate and plot</p>	<p>Parts of the work done independently, after advice</p> <p>Some questions independently formulated. Calculations and plots made after advice</p>	<p>Calculations and plots made with some help</p> <p>Some analysis is done with guidance</p>	<p><b>Use of resources:</b> Available ICT and other resources such as calculators are used thoughtfully</p>	<p>Some of the available resources are used effectively</p>	<p>Simple resources are used. ICT may be used, but with little thought</p>
	(i) Planning				(i) /5		
	(ii) Use of resources				(ii) /5		
<b>Use of physics</b>	<b>B</b>	<p><b>Devising a strategy:</b> A sound knowledge and understanding of the relevant physics has been used</p> <p><b>Preparation:</b> Initial graphs guided progress</p>	<p>Some knowledge and understanding of physics has been used</p> <p>Straightforward relationships were anticipated</p>	<p>The approach is largely mechanical</p> <p>There was little advance preparation</p>	<p><b>The experiment:</b> The essential physics of the experiment is clearly and concisely discussed</p> <p><b>The results:</b> Attention is drawn to aspects of the experiment likely to be important in understanding the results</p>	<p>Aspects of the physics underlying the experiment are made clear</p> <p>Some aspect of the experiment is discussed in explaining the results</p>	<p>The experiment is described without basic errors in physics</p> <p>The physics of the experiment is not used in explaining the results</p>
	(i) Devising a strategy				(i) /5		
	(ii) The experiment				(ii) /5		

<b>Communication</b>	<b>C</b> (i) Content of report (ii) Presentation of report	<b>Experiment:</b> Account of experiment is concise and related to data collected	The purpose of the experiment is briefly described	Description of experiment is not related to the data	<b>Presentation:</b> The report is concise, interesting to read and presents results with impact and clarity	Work is generally orderly. Graphs are neat, without distracting elements	A report has been presented but the work is untidy, arguments muddled
		<b>Data:</b> Data processing recorded methodically in appropriately labelled tables and graphs	Some data processing recorded and relationships shown in graphs or tables	Tables lacked significant details	<b>Use of English:</b> The quality of English is good	The quality of English is acceptable	The quality of English just adequate
		<b>Conclusions:</b> The outcome of the analysis is clear	Conclusions are supported by the data	Some conclusion is drawn	(i) /5	(ii) /5	
<b>Mathematical care</b>	<b>D</b> (i) Graphs and tables (ii) Analysis	<b>Plotting:</b> Graphical plots are well-chosen, to display results effectively	Appropriate graphs are drawn	Some relevant graphs are drawn	<b>Interpretation:</b> Graphs and tables are interpreted in terms of the relevant physics. The analysis reveals correctly the underlying mechanisms at work	Tables and graphs show significant relationships, and are given some interpretation	Data are presented mainly in raw form
		<b>Interpretation:</b> Line or curve fitting done has a valid basis in the physics. Inferences are made from plots	Curves are fitted when appropriate. Some correct calculations of relevant quantities are made	Quantities considered are usually direct from measurement	<b>Conclusions:</b> Relationships proposed are consistent with the evidence and with basic physical ideas	Conclusions consistent with the data and with basic physical ideas are drawn	Some conclusion relevant to the data is drawn
		<b>Errors:</b> Outcomes linked to possible sources of errors	Some mention is made of possible errors.	Little discussion of errors	(i) /5	(ii) /5	
<b>RATING TOTAL</b>					/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.