

Please read the instructions printed at the end of this form. **One** of these sheets, suitably completed, should be attached to the assessed work of **each** candidate.

<b>Unit Title</b>	<b>Scientific principles and applications for engineers</b>	<b>Unit Code</b>	<b>F564</b>	<b>Session</b>	Jan / June	<b>Year</b>	<b>2</b>	<b>0</b>		
<b>Centre Name</b>						<b>Centre Number</b>				
<b>Candidate Name</b>						<b>Candidate Number</b>				

Experiment title / Number		Marking Criteria – total marks for this unit is 300			Teacher Comment	Page
Band 1	Band 2	Band 3			Mark	
Produce a title and a basic description of the Experiment  A basic explanation of the theory behind the experiment is given  <p style="text-align: right;"><b>[0 1]</b></p>	Produce a title and describe most of the main stages involved in the experiment  An explanation of the theory behind the experiment is given but with some omissions and inaccuracies  <p style="text-align: right;"><b>[2 3]</b></p>	Produce a title and describe all of the stages involved in the experiment  A thorough explanation of the theory behind the experiment is given with detailed knowledge being presented  <p style="text-align: right;"><b>[4]</b></p>				
List some of the equipment, use of computers and simulations used within the experiment  List identification codes so that if necessary the experiment could be repeated using the identical equipment  Produce a clearly drawn diagram of the experiment with the equipment labeled  <p style="text-align: right;"><b>[0 1 2]</b></p>	List most of the equipment, use of computers and simulations used within the experiment  List identification codes so that if necessary the experiment could be repeated using the identical equipment  Produce a clearly drawn diagram of the experiment with most of the equipment labelled correctly and some systems identified  <p style="text-align: right;"><b>[3 4 5]</b></p>	List the equipment, use of computers and simulations used within the experiment  List identification codes so that if necessary the experiment could be repeated using the identical equipment  Produce a clearly drawn diagram of the experiment with the equipment fully and accurately labelled and systems clearly identified  <p style="text-align: right;"><b>[6 7 8]</b></p>				
Describe the method of carrying out the experiment but omitting important steps needed in the procedure  <p style="text-align: right;"><b>[0 1]</b></p>	Describe the method of carrying out the experiment, including mostly complete details of safety procedures followed  <p style="text-align: right;"><b>[2 3]</b></p>	Describe in detail the method of carrying out the experiment, including accurate details of safety procedures followed  <p style="text-align: right;"><b>[4 5]</b></p>				

Experiment title / Number		Marking Criteria – total marks for this unit is 300				Teacher Comment	Page
Ref	Band 1	Band 2	Band 3			Mark	
	Provide a basic record, with some errors, of the results of the experiment. Little attempt made to carry out calculations  Only basic comments made concerning errors and degrees of accuracy  [0 1 2]	Record, analyse and present the results of the experiment with few errors and carry out calculations, with some assistance  Limited comment on matters concerning errors and accuracies  [3 4 5]	Record, analyse and present the results of the experiment without error and carry out accurate calculations, without assistance  Made a detailed statement of how accurately results had been taken and how any errors found had been dealt with  [6 7 8]			Mark	
	Present very few notes by way of a conclusion  [0 1]	Present logical notes together with conclusion of limited value  [2 3]	Present a detailed conclusion explaining and evaluating all aspects of the experiment  [4 5]			Mark	
<b>Total/30</b>							
If this work is a re-sit, please tick		Session and Year of previous submission	Jan / June	<b>2</b>	<b>0</b>	Please tick to indicate this work has been standardised internally	

Please note: This form may be updated on an annual basis. The current version of this form will be available on the OCR website ([www.ocr.org.uk](http://www.ocr.org.uk)).

### Guidance on Completion of this Form

- 1 One sheet should be used for each candidate.
- 2 Please ensure that the appropriate boxes at the top of the form are completed.
- 3 Please enter *specific* page numbers where evidence can be found in the portfolio, and where possible, indicate to which part of the text in the mark band the evidence relates.
- 4 Circle the mark awarded for each strand of the marking criteria in the appropriate box and enter the circled mark in the final column.
- 5 Add the marks for the strands together to give a total out of 300 = 10 experiments of 30 marks each. Enter this total in the relevant box.