

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>Investigating the Scientist's Work</b>	<b>Unit Code</b>	<b>G627</b>	<b>Session</b>	<b>June</b>	<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>				

**Evidence:** The candidate needs to produce an information pack which can be used and understood by a group of scientific research technicians.

Criteria			Teacher Comment	Mark	Page No.
<p>AO1(a).1: Candidate will produce a workable and clearly presented plan for <b>one</b> investigation linked to a vocational context; the plan shows</p> <ul style="list-style-type: none"> <li>the aims and objectives</li> <li>a basic knowledge of the scientific principles</li> <li>experimental techniques to be used</li> <li>timing for activities</li> <li>information on deadlines candidate will need to be aware of;</li> </ul> <p style="text-align: right;"><b>[0 1 2]</b></p>	<p>AO1(a).2: candidate will produce an achievable and logically presented plan, for <b>one</b> investigation with direct vocational involvement which shows</p> <ul style="list-style-type: none"> <li>a sound knowledge and understanding of the aims and objectives set</li> <li>a range of experimental techniques which will be used</li> <li>appropriate detailed time information for all activities</li> <li>identification of constraints candidate will have to work under and how they can be overcome;</li> </ul> <p style="text-align: right;"><b>[3]</b></p>	<p>AO1(a).3: candidate will produce a comprehensive, realistic, achievable and logically presented plan for <b>one</b> suitable investigation which demonstrates</p> <ul style="list-style-type: none"> <li>a thorough knowledge and understanding of the objectives</li> <li>a wide range of experimental techniques which will be used</li> <li>appropriate workable time guidelines</li> <li>identification and discussion of the constraints, their effect and suitable contingency plans.</li> </ul> <p style="text-align: right;"><b>[4 5]</b></p>			
<p>AO1(b).1: Candidate will show evidence of selected research about an investigation to include</p> <ul style="list-style-type: none"> <li>vocational links</li> <li>suitable experimental work</li> <li>health and safety guidance</li> <li>referencing of sources used;</li> </ul> <p style="text-align: right;"><b>[0 1 2]</b></p>	<p>AO1(b).2: candidate will show evidence of a wide range of relevant research, selected from a number of sources about an investigation to include</p> <ul style="list-style-type: none"> <li>relevant vocational links</li> <li>a range of experimental work</li> <li>related health &amp; safety guidance</li> <li>related referencing of sources;</li> </ul> <p style="text-align: right;"><b>[3]</b></p>	<p>AO1(b).3: candidate will show evidence of thorough research and suitable selection of information from a wide range of sources, about an investigation to include</p> <ul style="list-style-type: none"> <li>researched vocational links</li> <li>a wide range of experimental work</li> <li>detailed &amp; relevant health &amp; safety guidance</li> <li>suitable referencing and validation of sources used.</li> </ul> <p style="text-align: right;"><b>[4 5]</b></p>			

Criteria			Teacher Comment	Mark	Page No.
AO2(a).1: Candidate will produce a record of monitoring their plan with reasons showing how the plan has been followed;  <b>[0 1 2]</b>	AO2(a).2: candidate will show evidence of monitoring their plan, how the plan has been followed and include any modifications or changes needed to be made, providing reasons for the changes;  <b>[3]</b>	AO2(a).3: candidate show detailed evidence of monitoring their plan and will carry out and provide explanations of any strategies used to overcome any deficiencies or constraints of the plan.  <b>[4]</b>			
AO2(b).1: Candidate will interpret the outcomes of the investigation and discuss its success;  <b>[0 1]</b>	AO2(b).2: candidate will assess the reliability of the outcomes and the data and discuss how well the investigation achieved its aims;  <b>[2 3]</b>	AO2(b).3: candidate will discuss the reliability of the investigation with a detailed scientific discussion of how the investigation achieved its aims and objectives.  <b>[4 5]</b>			
AO2(c).1: Candidate will carry out a number of completed straightforward calculations which are linked to the investigation;  <b>[0 1 2]</b>	AO2(c).2: candidate will carry out a number of straightforward and complex calculations completed with partial success and accuracy which are linked to the investigation;  <b>[3]</b>	AO2(c).3: candidate will accurately and correctly complete a number of complex calculations which are linked to the investigation, giving answers to the correct number of significant figures.  <b>[4 5]</b>			
AO3(a).1: Candidate will provide evidence that the experimental procedures or trials in the investigation have been carried out safely and correctly and repeated where necessary using risk assessments;  <b>[0 1 2]</b>	AO3(a).2: candidate will show evidence that a range of experimental techniques and procedures has been safely and skilfully completed using suitably detailed risk assessments and within the constraints of the plan;  candidate will demonstrate that an appropriate degree of accuracy has been used;  <b>[3 4]</b>	AO3(a).3: candidate will show evidence that a wide range of experimental techniques and procedures has been safely, skilfully, accurately and independently completed, using detailed risk assessments which they have produced.  <b>[5 6]</b>			
AO3(b).1: Candidate will produce a clear and accurate report of the outcomes of the investigation, using basic scientific terminology correctly, which can be understood by research technicians with evidence of corrected spelling, punctuation and grammar;  <b>[0 1 2]</b>	AO3(b).2: candidate will produce a logical and accurate report of the outcomes of the investigation, using scientific terminology correctly, with correct punctuation and grammar, which can be understood and used by research technicians; there is evidence to show understanding of the scientific concepts involved in the investigation;  <b>[3 4 5]</b>	AO3(b).3: candidate will produce a logical and well-structured report of the outcomes of the investigation using all the appropriate scientific terminology, with correct spelling, punctuation and grammar suitable for use by scientific technicians;  this will show a high level of scientific knowledge and understanding relevant to the investigation and its applied implications.  <b>[6 7]</b>			

Criteria					Teacher Comments	Mark	Page No.
AO3(c).1: Candidate will record the results of the investigation and present them in a suitable format  <b>[0 1]</b>	AO3(c).2: candidate will accurately record results and outcomes of the investigation and present them in a suitable format including a suitable description and explanation;  <b>[2 3]</b>	AO3(c).3: candidate will accurately record to the appropriate precision and present results of the investigation in a suitable manner and provide a detailed explanation.  <b>[4]</b>					
AO3(d).1: Candidate will show processing and interpretation of the data collected with a suitable link to the vocational context set;  <b>[0 1 2]</b>	AO3(d).2: candidate will show suitable accurate processing and interpretation of the data collected, relating to the objectives of the investigation;  <b>[3]</b>	AO3(d).3: candidate will show evidence that the appropriate method of processing has been selected and accurately and correctly used with any anomalous data identified and evaluated; candidate provides a critical analysis of the results relating to the objectives of the investigation.  <b>[4 5]</b>					
AO3(e).1: Candidate will produce a basic evaluation of the investigation;  <b>[0 1]</b>	AO3(e).2: candidate will produce an evaluation of the investigation;  <b>[2 3]</b>	AO3(e).3: candidate will produce a critical evaluation of the investigation, incorporating suitable amendments where appropriate.  <b>[4]</b>					
<b>Total/50</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 also enter the circled mark in the final column.
- 5 Add the marks for the strands together to give a total out of 50. Enter this total in the relevant box.

