

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

Specification Code	J649	Unit Code	B481		Session	Jan / June	Year	2	0	0
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Centre Name		Centre Number				
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Candidate Name		Candidate Number				
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You need to produce a laboratory notebook or file in which you have written:

a report on research into working safely in science, including hazards and risks, first aid and fire prevention [12 marks].

Your laboratory notebook or file also needs to include records of six practical activities* where in each activity you have shown you can:

- b carry out risk assessments [6 marks];
 c follow standard procedures involved in practical tasks using scientific equipment and materials [8 marks];
 d make and record observations and/or measurements, present and process data [12 marks];
 e draw conclusions and evaluate data [12 marks].

*These practical activities must be in each of the following areas: microscopy; culturing organisms; qualitative analysis; quantitative analysis; electrical properties and other physical properties.

A typical candidate at grades GG, FF, EE will:	A typical candidate at grades DD, CC, BB will:	A typical candidate at grades BB, AA, A*A* will:	Teacher Comment	Location	Mark
<p>a1 Carry out research into working safely, using a limited range of sources and information, including:</p> <ul style="list-style-type: none"> hazards and risks; first aid; fire prevention. <p>Report shows little structure or follows a structure provided by worksheet(s).</p> <p style="text-align: right;">0 1 2 3 4 5 6</p>	<p>a2 Carry out research into working safely, using a range of sources and information, including:</p> <ul style="list-style-type: none"> hazards and risks; first aid; fire prevention. <p>Report has an appropriate sequence and uses relevant visual and textual material</p> <p style="text-align: right;">7 8 9</p>	<p>a3 Carry out research into working safely, using a wide range of sources and information, including:</p> <ul style="list-style-type: none"> hazards and risks; first aid; fire prevention. <p>Report is logical, well sequenced with good justification and uses well chosen textual and visual material.</p> <p style="text-align: right;">10 11 12</p>			(12)
<p>b1 For each practical activity:</p> <ul style="list-style-type: none"> produce an appropriate risk assessment with guidance. <p style="text-align: right;">0 1 2</p>	<p>b2 For each practical activity:</p> <ul style="list-style-type: none"> produce an appropriate risk assessments with some guidance. <p style="text-align: right;">3 4</p>	<p>b3 For each practical activity:</p> <ul style="list-style-type: none"> produce an appropriate and full risk assessment given little guidance. <p style="text-align: right;">5 6</p>			(6)

<p>c1 For each practical activity:</p> <ul style="list-style-type: none"> • follow step by step instructions, with guidance; • use given, standard laboratory equipment correctly and safely with guidance. <p style="text-align: right;">0 1 2 3</p>	<p>c2 For each practical activity:</p> <ul style="list-style-type: none"> • carefully follow instructions, with some guidance for the more complex tasks; • use appropriate laboratory equipment correctly and safely throughout each task. <p style="text-align: right;">4 5 6</p>	<p>c3 For each practical activity:</p> <ul style="list-style-type: none"> • confidently follow standard procedure instructions, with little guidance in all tasks; • where appropriate select suitable laboratory equipment and confidently use correctly and safely. <p style="text-align: right;">7 8</p>			(8)
<p>d1 For each practical activity, where appropriate:</p> <ul style="list-style-type: none"> • make and record simple observations and/or measurements with guidance; • present data in charts, graphs or visual images with guidance. <p style="text-align: right;">0 1 2 3 4 5</p>	<p>d2 For each practical activity, where appropriate:</p> <ul style="list-style-type: none"> • make and record accurate observations and/or measurements independently; • recognise when it is necessary to repeat observations and/or measurements; • process data with some guidance and present in an appropriate format. <p style="text-align: right;">6 7 8</p>	<p>d3 For each practical activity, where appropriate:</p> <ul style="list-style-type: none"> • make and record sufficient accurate observations and/or measurements independently; • repeat observations and/or measurements explaining why these were repeated; • independently process and correctly display data in a clear and appropriate way using a suitable format. <p style="text-align: right;">9 10 11 12</p>			(12)
<p>e1 For the data collected:</p> <ul style="list-style-type: none"> • describe your findings; • identify a weakness(es) in the method used. <p style="text-align: right;">0 1 2 3 4</p>	<p>e2 For the data collected:</p> <ul style="list-style-type: none"> • explain findings using simple scientific knowledge; • describe the weakness(es) of the methods used. <p style="text-align: right;">5 6 7</p>	<p>e3 For the data collected:</p> <ul style="list-style-type: none"> • explain findings using detailed scientific knowledge and understanding; • review your work, identifying sources of error and suggesting improvements to their methods. <p style="text-align: right;">8 9 10 11 12</p>			(12)

Note: Although you will be given an interim mark out of 50 by your teacher, this might be adjusted by OCR to make sure that your mark is in line with national standards.

TOTAL

(50)

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 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.
- 4 Add the marks for the strands together to give a total out of 50. Enter this total in the relevant box.