

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.

Unit Title	5 Chemicals for a purpose	Unit Code	G624	Session	Jan / June	Year	2	0	0	
Centre Name					Centre Number					
Candidate Name					Candidate Number					

Evidence: You investigate chemicals for a purpose.

Criteria			Teacher Comment	Page No.
<p>AO1(a).1: You will give four examples of chemical compounds (two inorganic and two organic) giving their formulae;</p> <p>[0 1]</p>	<p>AO1(a).2: you will give four examples of chemical compounds (two inorganic and two organic), appropriate formulae are shown, e.g. full structural and you have presented data systematically to show the properties of the compounds, e.g. using charts, tables and graphs;</p> <p>[2 3]</p>	<p>AO1(a).3: you will represent the four examples (two inorganic and two organic) using full formulae and give detailed data about properties and uses, presenting them systematically using a wide range of presentation techniques, e.g. tables, pie charts and graphs.</p> <p>[4 5]</p>	<p>Mark</p>	
<p>AO1(b).1: You will present clearly the uses and properties of the compounds;</p> <p>[0 1]</p>	<p>AO1(b).2: you have attempted to link the properties of the compounds to their uses;</p> <p>[2 3]</p>	<p>AO1(b).3: a full discussion will show how properties depend on structure and how uses depend on properties for each compound.</p> <p>[4 5]</p>	<p>Mark</p>	
<p>AO1(c).1: You will research the chemistry of one of the examples, e.g. a polymer or detergent;</p> <p>[0 1 2 3 4 5]</p>	<p>AO1(c).2: you will research and give a more detailed account of the chemistry of one of the examples, e.g. a polymer or detergent, showing the main, relevant reactions and some use made of appropriate scientific terminology;</p> <p>[6 7 8]</p>	<p>AO1(c).3: you will fully research and give an account of the chemistry of one of the examples, e.g. a polymer or detergent, with full detail of structures of the substances involved; the reactions involved will be fully explained with additional researched detail throughout and good use made of appropriate scientific terminology.</p> <p>[9 10 11]</p>	<p>Mark</p>	
<p>AO2(a).1: You will give an outline of two industrial chemical processes showing the conditions, raw materials and products; the usefulness of the products will be identified;</p> <p>[0 1]</p>	<p>AO2(a).2: you will give a more detailed description of two processes, including equations where appropriate;</p> <p>[2 3]</p>	<p>AO2(a).3: you will produce a fully researched, very detailed account of two processes, explaining all reactions fully.</p> <p>[4 5]</p>	<p>Mark</p>	

Criteria			Teacher Comment	Page No.		
<p>AO2(b).1: You will include a description of the role of the catalyst and identify some advantages and disadvantages of each process;</p> <p style="text-align: right;">[0 1]</p>	<p>AO2(b).2: you will discuss the role of the catalyst more fully and include a discussion about the advantages and disadvantages of the processes;</p> <p style="text-align: right;">[2 3]</p>	<p>AO2(b).3: you will give a full account of the chemistry of catalysis and the evaluation will show a sophisticated understanding of the potential social, economic and environmental impacts of the processes.</p> <p style="text-align: right;">[4 5]</p>	<table border="1"> <tr><td>Mark</td></tr> <tr><td> </td></tr> </table>	Mark		
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<p>AO3(a).1: You will research and present a workable method with a safe risk assessment;</p> <p style="text-align: right;">[0 1 2]</p>	<p>AO3(a).2: you will research a more detailed method showing details of all apparatus and quantities used and include a workable risk assessment;</p> <p style="text-align: right;">[3 4]</p>	<p>AO3(a).3: you will research and produce a very detailed method and give a full description of each stage of the preparation, purification and analysis of the product and include a full, detailed risk assessment which shows selectivity in the information presented.</p> <p style="text-align: right;">[5 6]</p>	<table border="1"> <tr><td>Mark</td></tr> <tr><td> </td></tr> </table>	Mark		
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<p>AO3(b).1: You will present the method and results coherently using tables and diagrams;</p> <p style="text-align: right;">[0 1 2 3]</p>	<p>AO3(b).2: you will record and present observations systematically with some processing of data;</p> <p style="text-align: right;">[4 5]</p>	<p>AO3(b).3: you will record, present and process accurately all measurements systematically using a range of methods, e.g. prose, numbered lists, tables and graphs.</p> <p style="text-align: right;">[6 7]</p>	<table border="1"> <tr><td>Mark</td></tr> <tr><td> </td></tr> </table>	Mark		
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<p>AO3(c).1: You will show an awareness that the yield can be increased by changing the conditions;</p> <p style="text-align: right;">[0 1 2]</p>	<p>AO3(c).2: you will make workable suggestions about increasing the yield;</p> <p style="text-align: right;">[3 4]</p>	<p>AO3(c).3: you will evaluate systematically the method of the preparation.</p> <p style="text-align: right;">[5 6]</p>	<table border="1"> <tr><td>Mark</td></tr> <tr><td> </td></tr> </table>	Mark		
Mark						
Total/50						
If this work is a re-sit, please tick	Session and Year of previous submission	Jan / June	2 0 0	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).
A completed Centre Authentication form CCS160 **must** accompany the MS1 when it is sent to the moderator.

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.