

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	Chemicals for a purpose	Unit Code	G624	Session	June	Year	2	0		
Centre Name						Centre Number				
Candidate Name						Candidate Number				
Evidence: The candidate needs to provide evidence of their knowledge, understanding and investigation into chemicals for a purpose.										
Criteria						Teacher Comment		Mark	Page No.	
AO1(a).1: Candidate will give four examples of chemical compounds (two inorganic and two organic) stating for each compound its • name • formula • structures; [0 1]	AO1(a).2: candidate will give four examples of chemical compounds (two inorganic and two organic), stating for each compound its • name • appropriate formula (e.g. displayed) • structures with a simple explanation of the bonding involved; the data will be presented systematically and research will show some evidence of selection; [2 3]	AO1(a).3: candidate will give four examples of chemical compounds (two inorganic and two organic) stating for each compound its • name • appropriate formula • structures to include a detailed explanation of the bonding involved; the candidate's research will show that relevant information has been selected and suitably referenced. [4 5]								
AO1(b).1: For each of the four chosen compounds, candidate will present clearly the • uses • properties; [0 1]	AO1(b).2: for each of the four compounds, candidate will show how the • uses depend upon the properties; information will be clearly presented and research will show some evidence of selection; [2 3]	AO1(b).3: for each of the four compounds, candidate will show how the • properties depend upon structure • uses depend upon the properties using appropriate scientific terminology; Information will be clearly presented and the candidate's research will show that relevant information has been selected and suitably referenced. [4 5]								

Criteria			Teacher Comment	Mark	Page No.
<p>AO1(c).1: Candidate will produce an account of the chemistry of two compounds, one of which is made from oil; the account will include</p> <ul style="list-style-type: none"> • physical properties • chemical properties • preparation • uses; <p>evidence of some scientific terminology used with corrected punctuation and grammar;</p> <p style="text-align: right;">[0 1 2 3 4 5]</p>	<p>AO1(c).2: candidate will produce a detailed account of the chemistry of two compounds, one of which is made from oil; the account will include</p> <ul style="list-style-type: none"> • physical properties • chemical properties • preparation • uses • relevant reactions; <p>appropriate scientific terminology will be used, mainly correct punctuation and grammar, and show that research information has been selected;</p> <p style="text-align: right;">[6 7 8]</p>	<p>AO1(c).3: candidate will produce a detailed account of the chemistry of two compounds, one of which is made from oil; the account will include</p> <ul style="list-style-type: none"> • physical properties • chemical properties • preparation • uses • structure of the compounds; • explanation of relevant reactions; <p>the appropriate use of scientific terminology with correct spelling, punctuation and grammar and Information selected is clearly presented and suitably referenced.</p> <p style="text-align: right;">[9 10 11]</p>			
<p>AO2(a).1: Candidate will show evidence of completion of simple calculations of actual and theoretical yields;</p> <p style="text-align: right;">[0 1]</p>	<p>AO2(a).2: candidate will show evidence of completion of calculating % yields and calculating costs of producing chemicals;</p> <p style="text-align: right;">[2]</p>	<p>AO2(a).3: candidate will show evidence of completing to the appropriate degree of accuracy a number of simple and complex calculations using researched data on costs of chemicals and data obtained from at least one of the preparations.</p> <p style="text-align: right;">[3]</p>			
<p>AO2(b).1: Candidate will give an outline of one industrial process in which a catalyst is used; the outline will include</p> <ul style="list-style-type: none"> • the role of the catalyst • raw materials • products • conditions <p>and the usefulness of the product will be stated;</p> <p style="text-align: right;">[0 1 2]</p>	<p>AO2(b).2: candidate will give a detailed description of one industrial process in which a catalyst is used; the description will include</p> <ul style="list-style-type: none"> • the role of the catalyst • raw materials • products • conditions • chemical equations; <p>energy costs, waste products, availability and sustainability of raw materials will be considered;</p> <p style="text-align: right;">[3 4]</p>	<p>AO2(b).3: candidate will give a fully researched, detailed account of one industrial process in which a catalyst is used; the account will include</p> <ul style="list-style-type: none"> • a description and explanation of the role of the catalyst • raw materials • products • conditions • chemical equations; <p>an understanding of the social, economic and environmental impact of the product will be discussed.</p> <p style="text-align: right;">[5 6 7]</p>			
<p>AO3(a).1: Candidate will research the compound chosen and present evidence of the completion of a workable method with a safe risk assessment for the laboratory preparation of an</p> <ul style="list-style-type: none"> • inorganic compound [1] • organic compound [1]; <p style="text-align: right;">[0 1 2]</p>	<p>AO3(a).2: candidate will research the compound and present evidence of the confident completion of a detailed method with a safe risk assessment for the laboratory preparation of an</p> <ul style="list-style-type: none"> • inorganic compound [2] • organic compound [2]; <p>evidence of the completion of some basic analysis should be included;</p> <p style="text-align: right;">[3 4]</p>	<p>AO3(a).3: candidate will show suitable selected relevant research and present evidence of the accurate completion of a detailed method with a safe risk assessment for the laboratory preparation of an</p> <ul style="list-style-type: none"> • inorganic compound [3] • organic compound [3] <p>with evidence of purification and analysis included; the risk assessment must be detailed and accurate.</p> <p style="text-align: right;">[5 6]</p>			

Criteria			Teacher Comment	Mark	Page No.
AO3(b).1: Candidate will present observations and results for each preparation using tables and diagrams; candidate has suitably processed some results for • inorganic compound [1] • organic compound [2]; [0 1 2 3]	AO3(b).2: candidate will accurately record observations, measurements and results for each preparation; candidate has processed results for • inorganic compound [2] • organic compound [3]; [4 5]	AO3(b).3: candidate will accurately record all observations, measurements and results for each preparation and analysis; candidate will have accurately processed the results for • inorganic compound [3] • organic compound [4]. [6 7]			
AO3(c).1: Candidate will evaluate the preparations and will indicate how the yield could be increased for • inorganic compound [1] • organic compound [1]; [0 1 2]	AO3(c).2: candidate will evaluate the preparations and analysis; candidate will state workable suggestions about increasing the yield for • inorganic compound [2] • organic compound [2]; [3 4]	AO3(c).3: candidate will evaluate systematically the preparations and analysis and give workable suggestions for increasing the yield for • inorganic compound [3] • organic compound [3]. [5 6]			
Total/50					
If this work is a re-sit, please tick	Session and Year of previous submission	Jan / June	2	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).

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.