

Applied Science

OCR GCE Unit G629 Synthesising Organic Chemicals Unit Recording Sheet

Unit Title Synthesising Organic Chemicals Unit Code G629				Session	June	Year	2	0			
Centre Name		-					Centre Number				
Candidate Name							Candidate Number				
Evidence: The candidate nee	eds to pro	duce evidence of their investigation in to s	synthesising organic chemicals.				1				
Criteria					Teacher Comment			Ma	rk	Page No.	
AO1(a).1: Candidate will so basic knowledge and understanding of the classifications of organic compounds and will be about name organic compounds of identify functional groups of draw structural and display formulae explain isomerism; their research will show so evidence of selection and suitable referencing;	ole to ds s layed	AO1(a).2: candidate will show knowledge and understanding of the classifications of a range of organic compounds and be able to • name organic compounds • identify functional groups • draw structural and displayed formulae • explain isomerism and discuss the difference in properties between isomers; their research will show evidence of the use of selection from a range of sources and suitable referencing;	AO1(a).3: candidate will she knowledge and understand classifications of a wide rate compounds and will be able. • name organic compound. • identify functional groups. • draw structural and displ. • explain the importance of relation to the difference between isomers; candidate will show relevating information that will be clear referenced.	ding of the nge of organic le to ls within molecule ayed formulae if isomerism with in properties							
AO1(b).1: Candidate will s	[0 1] show	AO1(b).2: candidate will show	AO1(b).3: candidate will sh	now understandi	[3]						
understanding of four reactypes by		understanding of four of the reaction types listed in the specifications by	and explain of at least five listed in the specifications	e reaction types by	''ਬ 						
 giving examples using appropriate nomenclatur relating the reaction type specific functional group 	e to the	selecting examples using appropriate nomenclature relating the reaction type to the specific functional group; candidate will describe the reaction types using correct scientific terminology; information will be clearly	 giving examples using an nomenclature relating the reaction type functional group candidate will explain the recorrect scientific terminologinformation will be clearly present the control of the control of	to the specific reaction types us gy;	iing						
	[0 1]	presented; [2]			[3]						

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AO1(c).1: Candidate will research two drug types listed in the specifications and show a	AO1(c).2: candidate will research three of the drug types listed in the specifications and show	AO1(c).3: candidate will research at least three drug types listed in the specifications and show a			
basic knowledge and understanding of therapeutic	detailed knowledge and understanding of therapeutic	detailed knowledge and understanding of therapeutic drugs, their usage and mode of			
drugs, their usage and mode of	drugs, their usage and mode of	action in the body;			
action in the body; scientific terms and conventions	action in the body; scientific terms and conventions	explanations of the therapeutic effect of drugs will be given and the use of the drugs			
will have generally been used	will have been used correctly in	evaluated; scientific terms and conventions will have			
correctly in the report with corrected punctuation and	the report with correct punctuation and grammar;	been used correctly in explanations			
grammar;	and grammar,	throughout, with correct spelling, punctuation			
[0 1]	[2 3]	and grammar.			
AO2(a).1: Candidate will produce	AO2(a).2: candidate will show	AO2(a).3: candidate will show detailed and			
information on a process used to	researched evidence of a process	selective research on a process used to			
manufacture an organic	used to manufacture an organic	manufacture an organic compound;			
compound; candidate will identify most of the	compound; candidate will identify all the	candidate will describe the factors needed to be considered to ensure a safe and economic			
factors needed to be considered	factors needed to be considered	process, using a wide range of appropriate			
to ensure a safe and economic	to ensure a safe and economic	sources and interpreting information clearly,			
process, selecting some appropriate sources and	process, selecting a range of appropriate sources and	evaluating and justifying this information, and presenting it clearly, concisely and coherently.			
presenting information clearly;	interpreting information clearly;	presenting it clearly, concisely and conelently.			
[0 1 2]	[3]	[4 5]			
AO2(b).1: Candidate will find and use information about some	AO2(b).2: candidate will find and explain information about the	AO2(b).3: candidate will find, explain and evaluate information about the costs and			
of the costs and benefits of the	costs and benefits of the organic	benefits of the organic compound and its			
organic compound and its	compound and its manufacture to	manufacture to			
manufacture to					
individuals	• individuals	• individuals			
• companies	companies society:	companies society:			
• society;	information will be clearly	information will be presented clearly and			
F0.4.01	presented;	concisely.			
AO2(c).1: Candidate will	AO2(c).2: candidate will	[4 5] AO2(c).3: candidate will demonstrate that they			
demonstrate that they have	demonstrate that they have	have completed correctly and independently			
completed straightforward	completed simple and complex	complex calculations either related to their			
calculations either related to their	calculations correctly either	research or to their preparations.			
research or to their preparations; some assistance may have been	related to their research or to their preparations with little assistance;				
used;	proparations with fittie assistance,				
[0 1]	[2 3]	[4]			

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AO3(a).1: Candidate will record evidence of the safe completion of the preparation and purification of two organic compounds, one of which is a useful drug; candidate will give evidence of the use of valid risk assessments;	AO3(a).2: candidate will record evidence of the planning and the safe completion of the preparation and purification of two organic compounds, one of which is a useful drug, using a range of techniques; candidate will give evidence that they have used COSHH data to produce valid risk assessments with some assistance;	AO3(a).3: candidate will record evidence of independent planning and the skilful and safe completion of the preparation and purification of two organic compounds, one of which is a useful drug, using a wide range of techniques and justifying reasons for the use of such techniques; candidate will independently produce and use risk assessments using COSHH data where appropriate.			110.
[0 1 2 3 4]	[5 6 7 8]	[9 10 ⁻	1		
AO3(b).1: Candidate will make and record some observations and measurements for both preparations and purifications and display information clearly;	AO3(b).2: candidate will make and record in a suitable format observations and measurements from both preparations and purifications to the appropriate level of precision;	AO3(b).3: candidate will make and record accurately all relevant observations and measurements from both preparations, with the appropriate precision, and display all information clearly and logically.			
[0 1]	[2]	[3 4]	1		
AO3(c).1: Candidate will provide evidence of some processing and interpretation of the results;	AO3(c).2: candidate will provide evidence of the processing of results from both preparations; the processing will be set out clearly;	AO3(c).3: candidate will provide correct processing of all the results from both preparations; the processing will be set out clearly and logically.			
[0 1 2]	[3 4]	[5 6]	1		
AO3(d).1: Candidate will draw some conclusions related to both preparations and give a basic evaluation of the practical work; [0 1 2]	AO3(d).2: candidate will draw conclusions with explanations related to the outcomes of both preparations and evaluate the practical work suggesting alternative techniques; [3 4]	AO3(d).3: candidate will draw detailed conclusions explaining and evaluating both practicals and suggesting alternative techniques or routes where appropriate.			
			Total/50		
If this work is a re-sit, please tick	Session and Year of previous submis	ssion Jan / June 2 0 Pleas	se 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.
- 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.
- Add the marks for the strands together to give a total out of 50. Enter this total in the relevant box.