

Science

OCR J816 Unit R076 Level 1/Level 2 Cambridge Nationals Certificate in Science Unit Recording Sheet

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 Environm	ental sciend	ce		Unit Code	R076	Session	Jan/June/Nov	Year				
Centre Name							Centre Number	er				
Candidate Name							Candidate Nu	mber				
Criteria						Те	5	Ma	ark		ige Io	
LO1: Understa	and that stable	ecosystems depend on balanced physic	cal and biolog	ical environmer	nts							
MB1: 1 – 5 marks		MB2: 6 – 10 marks	M	B3: 11 – 15 marl	ks							
 Basic definition of an ecosystem and environment Basic knowledge of the abiotic and biotic components of ecosystems Basic explanation of how ecosystems remain in balance Basic linkage to the carbon cycle, nitrogen cycle, and water cycle 		Detailed definition of an ecosystem and environment Detailed knowledge of the abiotic and biotic components of ecosystems Limited explanation with qualitative data of how ecosystems remain in balance Limited linkage to the carbon cycle, nitrogen cycle, and water cycle	 Thorough definition of an ecosystem and environment Thorough knowledge of the abiotic and biotic components of ecosystems Detailed explanation with quantitative data of how ecosystems remain in balance Detailed linkage to the carbon cycle, nitrogen cycle, and water cycle 									
[1 2 3 4 5]		[6 7 8 9 10]		[11 12	13 14 15]				<u> </u>		<u></u>	
LO2: Understand the impact of human and natural events on the environment												
MB1: 1 – 5 marks		MB2: 6 – 10 marks	M	B3: 11 – 15 marl	ks							
Lists how the environm affected by human and na Limited linkage of the environmental events environmental consequen Some understanding of outcomes of the impact of natural events on the environmental events on the	atural events effects of s to the nces f the f human and	Limited description of how the environment can be affected by human and natural events Detailed linkage of the effect of human and natural events to the environmental consequences Detailed understanding of outcomes of the impact of human and natural events on the environment	environment of and natural even Well justified human and national environmental outcomes of the environment of the environment outcomes of the environment of the env	escription how the can be affected be vents ed linkage of the atural events to the consequences understanding of the impact of hums on the environn	oy human effect of he f the nan and							
	[1 2 3 4 5]	[6 7 8 9 10]		[11 12	13 14 151							

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	Criteria		Teacher Comments	Mark	
LO3: Understand how physic	cal conditions in the environment are mo	nitored at local and global levels			
MB1: 1 – 5 marks	MB2: 6 – 10 marks MB3: 11 – 15 marks				
Lists of techniques and instruments that can be used to monitor physical conditions in the environment at local and global levels Basic description of the consequences to the environment of the conditions monitored	Limited description of techniques and instruments that can be used to monitor physical conditions in the environment at local and global levels Limited description of the consequences to the environment of the conditions monitored	Detailed description of techniques and instruments that can be used to monitor physical conditions in the environment at local and global levels Detailed description with relevant quantitative data of the consequences to the environment of the conditions monitored			
[1 2 3 4 5]	[6 7 8 9 10]	[11 12 13 14 15]			
LO4: Be able to use star	ndard procedures to monitor physical fac	ctors within the environment			
MB1: 1 – 5 marks	MB2: 6 – 10 marks	MB3: 11 – 15 marks			
Lists of physical conditions that can be measured to monitor the environment When provided with method and equipment, some support needed to take a series of measurements of physical conditions within an environment Some measurements taken and recorded When provided with mathematical techniques to use, some data processed correctly	Limited description of physical conditions that are measured to monitor the environment Independent selection of equipment to take a series of measurements of physical conditions within an environment; little support needed to set up equipment correctly Measurements taken and recorded using an appropriate format Support needed to process data using appropriate mathematical techniques	Detailed description of physical conditions that are measured to monitor the environment Independent selection of equipment to take a series of measurements of physical conditions within an environment; equipment set up correctly Measurements taken and recorded to appropriate accuracy and precision using an appropriate format, including use of correct units Data processed accurately using appropriate mathematical techniques to identify trends or patterns			
[1 2 3 4 5]	[6 7 8 9 10]	[11 12 13 14 15]			

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	Teacher Comments	Mark	Page No		
LO5: Be able to use stand					
MB1: 1 – 5 marks	MB1: 1 – 5 marks MB2: 6 – 10 marks MB3: 11 – 15 marks				
When provided with method and equipment, some support needed to set up and take measurements to measure the degree of pollution in an environmental sample Some measurements taken and recorded When provided with mathematical techniques to use, some data processed correctly	Independent selection of equipment to carry out tests; little support needed to set up correctly Measurements taken and recorded using an appropriate format Support needed to process data using appropriate mathematical techniques	 Independent selection of equipment to take measurements; equipment set up correctly; Measurements taken and recorded to appropriate accuracy and precision using an appropriate format, including use of correct units Data processed accurately using appropriate mathematical techniques to identify trends or patterns 			
[1 2 3 4 5]	[6 7 8 9 10]	[11 12 13 14 15]			
LO6: Understan	LO6: Understand how the environment is managed at local and global levels				
MB1: 1 – 5 marks MB2: 6 – 10 marks MB3: 11 – 15 marks					
Lists measures used to manage and preserve environments Lists measures used to repair the environment	Limited description and justification of measures used to manage and preserve environments Limited description of measures used to repair the environment	 Detailed description and justification of measures used to manage and preserve environments Detailed description of measures used to repair the environment 			
[1 2 3 4 5]	[6 7 8 9 10]	[11 12 13 14 15]			
LO7: Be able to describe the	purpose and structure of an organisation				
MB1: 1 – 5 marks	MB2: 6 – 10 marks	MB3: 11 – 15 marks			
Basic description of the purpose and structure of an organisation related to the environment Information provided is limited. Tutor guidance may be required to find and select appropriate information	Detailed description of the purpose and structure of an organisation related to the environment Information provided is detailed. Minimal tutor guidance is required to find and select appropriate information	Thorough description of the purpose and structure of an organisation related to the environment Information provided is comprehensive. Research is carried out independently			
[1 2 3 4 5]	[6 7 8 9 10]	[11 12 13 14 15]			

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	Criteria	Teacher Comments Mark	Page No	
LO8: Be able to	research career options within an environ			
MB1: 1 – 5 marks	MB2: 6 – 10 marks	MB3: 11 – 15 marks		
Lists sources of information on career areas within the environmental sector Basic information on career areas within the environmental sector Basic information about opportunities for career areas within the environmental sector	Information provided is detailed. Minimal tutor guidance is required to find and select appropriate information on career areas within the environmental sector Detailed information on career areas within the environmental sector Detailed information about opportunities for career areas within the environmental sector	Information provided is comprehensive. Research is carried out independently Thorough information on career areas within the environmental sector Thorough information about opportunities for career areas within the environmental sector		
[1 2 3 4 5] [6 7 8 9 10]		[11 12 13 14 15]		
		Total/120		
If this is a re-sit, please tick	Session and Year of previous submission Ja	an / June 2 0 Please tick to it	ndicate 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 120. Enter this total in the relevant box.

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