

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.

<b>Unit Title</b>	<b>Environmental science</b>			<b>Unit Code</b>	<b>R076</b>	<b>Session</b>	Jan/June/Nov	<b>Year</b>						
<b>Centre Name</b>							<b>Centre Number</b>							
<b>Candidate Name</b>							<b>Candidate Number</b>							
<b>Criteria</b>							<b>Teacher Comments</b>		<b>Mark</b>	<b>Page No</b>				
<b>LO1: Understand that stable ecosystems depend on balanced physical and biological environments</b>														
<b>MB1: 1 – 5 marks</b>			<b>MB2: 6 – 10 marks</b>			<b>MB3: 11 – 15 marks</b>								
<ul style="list-style-type: none"> <li>• <b>Basic</b> definition of an ecosystem and environment</li> <li>• <b>Basic</b> knowledge of the abiotic and biotic components of ecosystems</li> <li>• <b>Basic</b> explanation of how ecosystems remain in balance</li> <li>• <b>Basic</b> linkage to the carbon cycle, nitrogen cycle, and water cycle</li> </ul>			<ul style="list-style-type: none"> <li>• <b>Detailed</b> definition of an ecosystem and environment</li> <li>• <b>Detailed</b> knowledge of the abiotic and biotic components of ecosystems</li> <li>• <b>Limited</b> explanation with qualitative data of how ecosystems remain in balance</li> <li>• <b>Limited</b> linkage to the carbon cycle, nitrogen cycle, and water cycle</li> </ul>			<ul style="list-style-type: none"> <li>• <b>Thorough</b> definition of an ecosystem and environment</li> <li>• <b>Thorough</b> knowledge of the abiotic and biotic components of ecosystems</li> <li>• <b>Detailed</b> explanation with quantitative data of how ecosystems remain in balance</li> <li>• <b>Detailed</b> linkage to the carbon cycle, nitrogen cycle, and water cycle</li> </ul>								
[1 2 3 4 5]			[6 7 8 9 10]			[11 12 13 14 15]								
<b>LO2: Understand the impact of human and natural events on the environment</b>														
<b>MB1: 1 – 5 marks</b>			<b>MB2: 6 – 10 marks</b>			<b>MB3: 11 – 15 marks</b>								
<ul style="list-style-type: none"> <li>• <b>Lists</b> how the environment can be affected by human and natural events</li> <li>• <b>Limited</b> linkage of the effects of human and natural events to the environmental consequences</li> <li>• <b>Some</b> understanding of the outcomes of the impact of human and natural events on the environment</li> </ul>			<ul style="list-style-type: none"> <li>• <b>Limited</b> description of how the environment can be affected by human and natural events</li> <li>• <b>Detailed</b> linkage of the effect of human and natural events to the environmental consequences</li> <li>• <b>Detailed</b> understanding of outcomes of the impact of human and natural events on the environment</li> </ul>			<ul style="list-style-type: none"> <li>• <b>Detailed</b> description how the environment can be affected by human and natural events</li> <li>• Well <b>justified</b> linkage of the effect of human and natural events to the environmental consequences</li> <li>• <b>Thorough</b> understanding of the outcomes of the impact of human and natural events on the environment</li> </ul>								
[1 2 3 4 5]			[6 7 8 9 10]			[11 12 13 14 15]								

Criteria			Teacher Comments	Mark	Page No
<b>LO3: Understand how physical conditions in the environment are monitored at local and global levels</b>					
<b>MB1: 1 – 5 marks</b>	<b>MB2: 6 – 10 marks</b>	<b>MB3: 11 – 15 marks</b>			
<ul style="list-style-type: none"> <li>• <b>Lists</b> of techniques and instruments that can be used to monitor physical conditions in the environment at local and global levels</li> <li>• <b>Basic</b> description of the consequences to the environment of the conditions monitored</li> </ul> <p style="text-align: right;">[1 2 3 4 5]</p>	<ul style="list-style-type: none"> <li>• <b>Limited</b> description of techniques and instruments that can be used to monitor physical conditions in the environment at local and global levels</li> <li>• <b>Limited</b> description of the consequences to the environment of the conditions monitored</li> </ul> <p style="text-align: right;">[6 7 8 9 10]</p>	<ul style="list-style-type: none"> <li>• <b>Detailed</b> description of techniques and instruments that can be used to monitor physical conditions in the environment at local and global levels</li> <li>• <b>Detailed</b> description with <b>relevant</b> quantitative data of the consequences to the environment of the conditions monitored</li> </ul> <p style="text-align: right;">[11 12 13 14 15]</p>			
<b>LO4: Be able to use standard procedures to monitor physical factors within the environment</b>					
<b>MB1: 1 – 5 marks</b>	<b>MB2: 6 – 10 marks</b>	<b>MB3: 11 – 15 marks</b>			
<ul style="list-style-type: none"> <li>• <b>Lists</b> of physical conditions that can be measured to monitor the environment</li> <li>• When provided with method and equipment, <b>some support</b> needed to take a series of measurements of physical conditions within an environment</li> <li>• <b>Some</b> measurements taken and recorded</li> <li>• When provided with mathematical techniques to use, <b>some</b> data processed correctly</li> </ul> <p style="text-align: right;">[1 2 3 4 5]</p>	<ul style="list-style-type: none"> <li>• <b>Limited</b> description of physical conditions that are measured to monitor the environment</li> <li>• <b>Independent</b> selection of equipment to take a series of measurements of physical conditions within an environment; <b>little support</b> needed to set up equipment correctly</li> <li>• Measurements taken and recorded using an <b>appropriate</b> format</li> <li>• <b>Support</b> needed to process data using <b>appropriate</b> mathematical techniques</li> </ul> <p style="text-align: right;">[6 7 8 9 10]</p>	<ul style="list-style-type: none"> <li>• <b>Detailed</b> description of physical conditions that are measured to monitor the environment</li> <li>• <b>Independent</b> selection of equipment to take a series of measurements of physical conditions within an environment; equipment set up correctly</li> <li>• Measurements taken and recorded to <b>appropriate</b> accuracy and precision using an <b>appropriate</b> format, including use of correct units</li> <li>• Data processed <b>accurately</b> using <b>appropriate</b> mathematical techniques to identify trends or patterns</li> </ul> <p style="text-align: right;">[11 12 13 14 15]</p>			

Criteria			Teacher Comments	Mark	Page No
<b>LO5: Be able to use standard procedures to measure the degree of pollution in the environment</b>					
<b>MB1: 1 – 5 marks</b>	<b>MB2: 6 – 10 marks</b>	<b>MB3: 11 – 15 marks</b>			
<ul style="list-style-type: none"> <li>When provided with method and equipment, <b>some support</b> needed to set up and take measurements to measure the degree of pollution in an environmental sample</li> <li><b>Some</b> measurements taken and recorded</li> <li>When provided with mathematical techniques to use, <b>some</b> data processed correctly</li> </ul> <p style="text-align: right;">[1 2 3 4 5]</p>	<ul style="list-style-type: none"> <li>Independent selection of equipment to carry out tests; <b>little support</b> needed to set up correctly</li> <li>Measurements taken and recorded using an <b>appropriate</b> format</li> <li><b>Support</b> needed to process data using <b>appropriate</b> mathematical techniques</li> </ul> <p style="text-align: right;">[6 7 8 9 10]</p>	<ul style="list-style-type: none"> <li><b>Independent</b> selection of equipment to take measurements; equipment set up correctly;</li> <li>Measurements taken and recorded to <b>appropriate</b> accuracy and precision using an <b>appropriate</b> format, including use of correct units</li> <li>Data processed <b>accurately</b> using <b>appropriate</b> mathematical techniques to identify trends or patterns</li> </ul> <p style="text-align: right;">[11 12 13 14 15]</p>			
<b>LO6: Understand how the environment is managed at local and global levels</b>					
<b>MB1: 1 – 5 marks</b>	<b>MB2: 6 – 10 marks</b>	<b>MB3: 11 – 15 marks</b>			
<ul style="list-style-type: none"> <li><b>Lists</b> measures used to manage and preserve environments</li> <li><b>Lists</b> measures used to repair the environment</li> </ul> <p style="text-align: right;">[1 2 3 4 5]</p>	<ul style="list-style-type: none"> <li><b>Limited</b> description and <b>justification</b> of measures used to manage and preserve environments</li> <li><b>Limited</b> description of measures used to repair the environment</li> </ul> <p style="text-align: right;">[6 7 8 9 10]</p>	<ul style="list-style-type: none"> <li><b>Detailed</b> description and <b>justification</b> of measures used to manage and preserve environments</li> <li><b>Detailed</b> description of measures used to repair the environment</li> </ul> <p style="text-align: right;">[11 12 13 14 15]</p>			
<b>LO7: Be able to describe the purpose and structure of an organisation related to the environment</b>					
<b>MB1: 1 – 5 marks</b>	<b>MB2: 6 – 10 marks</b>	<b>MB3: 11 – 15 marks</b>			
<ul style="list-style-type: none"> <li><b>Basic</b> description of the purpose and structure of an organisation related to the environment</li> <li>Information provided is <b>limited</b>. Tutor guidance may be required to find and select appropriate information</li> </ul> <p style="text-align: right;">[1 2 3 4 5]</p>	<ul style="list-style-type: none"> <li><b>Detailed</b> description of the purpose and structure of an organisation related to the environment</li> <li>Information provided is <b>detailed</b>. Minimal tutor guidance is required to find and select appropriate information</li> </ul> <p style="text-align: right;">[6 7 8 9 10]</p>	<ul style="list-style-type: none"> <li><b>Thorough</b> description of the purpose and structure of an organisation related to the environment</li> <li>Information provided is <b>comprehensive</b>. Research is carried out <b>independently</b></li> </ul> <p style="text-align: right;">[11 12 13 14 15]</p>			

Criteria				Teacher Comments	Mark	Page No
<b>LO8: Be able to research career options within an environmental organisation</b>						
<b>MB1: 1 – 5 marks</b>	<b>MB2: 6 – 10 marks</b>	<b>MB3: 11 – 15 marks</b>				
<ul style="list-style-type: none"> <li>• <b>Lists</b> sources of information on career areas within the environmental sector</li> <li>• <b>Basic</b> information on career areas within the environmental sector</li> <li>• <b>Basic</b> information about opportunities for career areas within the environmental sector</li> </ul> <p style="text-align: right;"><b>[1 2 3 4 5]</b></p>	<ul style="list-style-type: none"> <li>• Information provided is <b>detailed</b>. Minimal tutor guidance is required to find and select appropriate information on career areas within the environmental sector</li> <li>• <b>Detailed</b> information on career areas within the environmental sector</li> <li>• <b>Detailed</b> information about opportunities for career areas within the environmental sector</li> </ul> <p style="text-align: right;"><b>[6 7 8 9 10]</b></p>	<ul style="list-style-type: none"> <li>• Information provided is <b>comprehensive</b>. Research is carried out <b>independently</b></li> <li>• <b>Thorough</b> information on career areas within the environmental sector</li> <li>• <b>Thorough</b> information about opportunities for career areas within the environmental sector</li> </ul> <p style="text-align: right;"><b>[11 12 13 14 15]</b></p>				
<b>Total/120</b>						
If this is a re-sit, please tick		Session and Year of previous submission	Jan / June	<b>2</b>	<b>0</b>	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](http://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 120. Enter this total in the relevant box.