

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	14 Ecology and Managing the Environment	Unit Code	G633	Session	Jan / June	Year	2	0	0	
Centre Name						Centre Number				
Candidate Name						Candidate Number				

Evidence of your investigation on ecology and managing ecosystems

Criteria			Teacher Comment	Page No.
<p>AO1(a).1: You will demonstrate a basic knowledge and understanding of the relationship between the organisms, their physical environment and each other in ecological succession;</p> <p>[0 1]</p>	<p>AO1(a).2: You will demonstrate a sound knowledge and understanding of the relationship between the organisms, their physical environment and each other in ecological succession; you will use appropriate scientific terms and conventions accurately;</p> <p>[2 3]</p>	<p>AO1(a).3: You will demonstrate a thorough knowledge and understanding of the relationship between the organisms, their physical environment and each other in ecological succession; you will use appropriate scientific terms and conventions accurately.</p> <p>[4 5]</p>	<p>Mark</p>	
<p>AO1(b).1: you will research the effect of agricultural practice, human habitation and greenhouse gas production on ecosystems and biodiversity, selecting information and presenting it clearly;</p> <p>[0 1]</p>	<p>AO1(b).2: You will research the effect of agricultural practice, human habitation and greenhouse gas production on ecosystems and biodiversity, selecting a wide range of information, giving reasons for your choice of resources, and presenting it clearly and logically;</p> <p>[2 3]</p>	<p>AO1(b).3: You will research the effect of agricultural practice, human habitation and greenhouse gas production on ecosystems and biodiversity, selecting a wide range of relevant information and presenting it clearly and logically; you will evaluate the information available and justify the choice you included.</p> <p>[4 5]</p>		
<p>AO2(a).1: you will identify some of the scientific, moral and ethical reasons for preserving ecosystems and species diversity;</p> <p>[0 1]</p>	<p>AO2(a).2: You will identify and explain the scientific, moral and ethical reasons for preserving ecosystems and species diversity;</p> <p>[2 3]</p>	<p>AO2(a).3: You will organise information to evaluate the scientific, moral and ethical reasons for preserving ecosystems and species diversity.</p> <p>[4]</p>	<p>Mark</p>	

Criteria				Teacher Comments		Page No.
AO2(b).1: You will describe some of the methods used to manage ecosystems and preserve species diversity; you will give a limited interpretation of information relating to the success of a project managing one ecosystem; [0 1]	AO2(b).2: You will describe methods used to manage ecosystems and preserve species diversity; you will describe and interpret data relating to the success of a project managing one ecosystem; [2 3]	AO2(b).3: You will describe a range of methods used to manage ecosystems and preserve species diversity; you will interpret, explain and evaluate a range of data relating to the success of a project managing one ecosystem. [4 5]	<div style="border: 1px solid black; width: 100%; height: 100%;"></div>		<div style="border: 1px solid black; width: 100%; height: 100%;"></div>	
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AO2(c).1: You will carry out straightforward calculations on ecological data (e.g. mean, standard deviation) and you will sometimes obtain the correct solutions; [0 1]	AO2(c).2: You will carry out complex calculations on ecological data, involving some use of statistics (e.g. diversity indices); you will obtain the correct solutions; [2 3]	AO2(c).3: You will carry out complex calculations on ecological data involving the statistical analysis of the data obtained (e.g. chi-squared or t test); you will obtain the correct solutions to an appropriate degree of accuracy and demonstrate an understanding of the significance of the outcomes. [4 5]	<div style="border: 1px solid black; width: 100%; height: 100%;"></div>		<div style="border: 1px solid black; width: 100%; height: 100%;"></div>	
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AO3(a).1: You will produce risk assessments; you will carry out measurements of some factors affecting the ecosystem you studied; you will use a range of techniques and equipment; [0 1 2 3 4]	AO3(a).2: You will produce risk assessments, consistent with COSHH guidelines; you will carry out measurements of factors affecting the ecosystem you studied, using a range of techniques and equipment; you will have repeated measurements, working with an appropriate degree of accuracy; [5 6]	AO3(c).3: You will produce your own detailed risk assessments, consistent with COSHH guidelines; you will carry out measurements of a wide range of factors affecting the ecosystem you studied and explain why you used a range of techniques and equipment; you will explain the need to have repeated measurements, and work with an appropriate degree of accuracy. [7 8]	<div style="border: 1px solid black; width: 100%; height: 100%;"></div>		<div style="border: 1px solid black; width: 100%; height: 100%;"></div>	
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AO3(b).1: You will make and record relevant observations and measurements in the ecosystem; [0 1 2]	AO3(b).2: You will make and record relevant observations and measurements in the ecosystem, using precision in your measurements; [3 4]	AO3(b).3: You will make and record a detailed set of relevant observations and measurements in the ecosystem, using the appropriate precision in your measurements. [5 6]	<div style="border: 1px solid black; width: 100%; height: 100%;"></div>		<div style="border: 1px solid black; width: 100%; height: 100%;"></div>	
						Mark
AO3(c).1: You will display the ecological data obtained using tables, with help; [0 1]	AO3(c).2: You will display the ecological data accurately in a range of ways; [2 3]	AO3(c).3: You will process and display accurately ecological data in a range of ways chosen to best illustrate the trends in the data. [4]	<div style="border: 1px solid black; width: 100%; height: 100%;"></div>		<div style="border: 1px solid black; width: 100%; height: 100%;"></div>	
						Mark
AO3(d).1: You will give some interpretation of the results and relate these to the occurrence and distribution of species within the ecosystem studied; [0 1 2 3 4]	AO3(d).2: You will interpret the results, and draw basic conclusions, relating your results to the occurrence and distribution of species within the ecosystem studied; [5 6]	AO3(d).3: You will interpret the results in detail, and draw conclusions relating your results to the occurrence and distribution of species within the ecosystem studied. [7 8]	<div style="border: 1px solid black; width: 100%; height: 100%;"></div>		<div style="border: 1px solid black; width: 100%; height: 100%;"></div>	
						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.