



Oxford Cambridge and RSA

...day June 20XX – Morning/Afternoon

GCSE (9–1) Geography B (Geography for Enquiring Minds)

J384/03 Geographical Exploration

SAMPLE MARK SCHEME

Duration: 1 hour 30 minutes

MAXIMUM MARK 60

This document consists of 24 pages

MARKING INSTRUCTIONS

PREPARATION FOR MARKING

SCORIS

1. Make sure that you have accessed and completed the relevant training packages for on-screen marking: *scoris assessor Online Training*; *OCR Essential Guide to Marking*.
2. Make sure that you have read and understood the mark scheme and the question paper for this unit. These are posted on the RM Cambridge Assessment Support Portal <http://www.rm.com/support/ca>
3. Log-in to scoris and mark the **required number** of practice responses (“scripts”) and the **required number** of standardisation responses.

YOU MUST MARK 10 PRACTICE AND 10 STANDARDISATION RESPONSES BEFORE YOU CAN BE APPROVED TO MARK LIVE SCRIPTS.

TRADITIONAL

Before the Standardisation meeting you must mark at least 10 scripts from several centres. For this preliminary marking you should use **pencil** and follow the **mark scheme**. Bring these **marked scripts** to the meeting.

MARKING

1. Mark strictly to the mark scheme.
2. Marks awarded must relate directly to the marking criteria.
3. The schedule of dates is very important. It is essential that you meet the scoris 50% and 100% (traditional 50% Batch 1 and 100% Batch 2) deadlines. If you experience problems, you must contact your Team Leader (Supervisor) without delay.
4. If you are in any doubt about applying the mark scheme, consult your Team Leader by telephone, email or via the scoris messaging system.

5. Work crossed out:
 - a. where a candidate crosses out an answer and provides an alternative response, the crossed out response is not marked and gains no marks
 - b. if a candidate crosses out an answer to a whole question and makes no second attempt, and if the inclusion of the answer does not cause a rubric infringement, the assessor should attempt to mark the crossed out answer and award marks appropriately.
6. Always check the pages (and additional objects if present) at the end of the response in case any answers have been continued there. If the candidate has continued an answer there then add a tick to confirm that the work has been seen.
7. There is a NR (No Response) option. Award NR (No Response)
 - if there is nothing written at all in the answer space
 - OR if there is a comment which does not in any way relate to the question (e.g. 'can't do', 'don't know')
 - OR if there is a mark (e.g. a dash, a question mark) which isn't an attempt at the question.Note: Award 0 marks – for an attempt that earns no credit (including copying out the question).
8. The scoris **comments box** is used by your Team Leader to explain the marking of the practice responses. Please refer to these comments when checking your practice responses. **Do not use the comments box for any other reason.**
If you have any questions or comments for your Team Leader, use telephone, email or the scoris messaging system.
9. Assistant Examiners will send a brief report on the performance of candidates to their Team Leader (Supervisor) via email by the end of the marking period. The report should contain notes on particular strengths displayed as well as common errors or weaknesses. Constructive criticism of the question paper/mark scheme is also appreciated.

10. Annotations

Annotation	Meaning

SPECIMEN

11. Subject-specific Marking Instructions

INTRODUCTION

Your first task as an Examiner is to become thoroughly familiar with the material on which the examination depends. This material includes:

- the specification, especially the assessment objectives
- the question paper and its rubrics
- the mark scheme.

You should ensure that you have copies of these materials.

You should ensure also that you are familiar with the administrative procedures related to the marking process. These are set out in the OCR booklet **Instructions for Examiners**. If you are examining for the first time, please read carefully **Appendix 5 Introduction to Script Marking: Notes for New Examiners**.

Please ask for help or guidance whenever you need it. Your first point of contact is your Team Leader.

SPECIMEN

USING THE MARK SCHEME

Please study this Mark Scheme carefully. The Mark Scheme is an integral part of the process that begins with the setting of the question paper and ends with the awarding of grades. Question papers and Mark Schemes are developed in association with each other so that issues of differentiation and positive achievement can be addressed from the very start.

This Mark Scheme is a working document; it is not exhaustive; it does not provide 'correct' answers. The Mark Scheme can only provide 'best guesses' about how the question will work out, and it is subject to revision after we have looked at a wide range of scripts.

The Examiners' Standardisation Meeting will ensure that the Mark Scheme covers the range of candidates' responses to the questions, and that all Examiners understand and apply the Mark Scheme in the same way. The Mark Scheme will be discussed and amended at the meeting, and administrative procedures will be confirmed. Co-ordination scripts will be issued at the meeting to exemplify aspects of candidates' responses and achievements; the co-ordination scripts then become part of this Mark Scheme.

Before the Standardisation Meeting, you should read and mark in pencil a number of scripts, in order to gain an impression of the range of responses and achievement that may be expected.

In your marking, you will encounter valid responses which are not covered by the Mark Scheme: these responses must be credited. You will encounter answers which fall outside the 'target range' of Bands for the paper which you are marking. Please mark these answers according to the marking criteria.

Please read carefully all the scripts in your allocation and make every effort to look positively for achievement throughout the ability range. Always be prepared to use the full range of marks.

LEVELS OF RESPONSE QUESTIONS:

The indicative content indicates the expected parameters for candidates' answers, but be prepared to recognise and credit unexpected approaches where they show relevance.

Using 'best-fit', decide first which set of level descriptors best describes the overall quality of the answer. Once the level is located, adjust the mark concentrating on features of the answer which make it stronger or weaker following the guidelines for refinement.

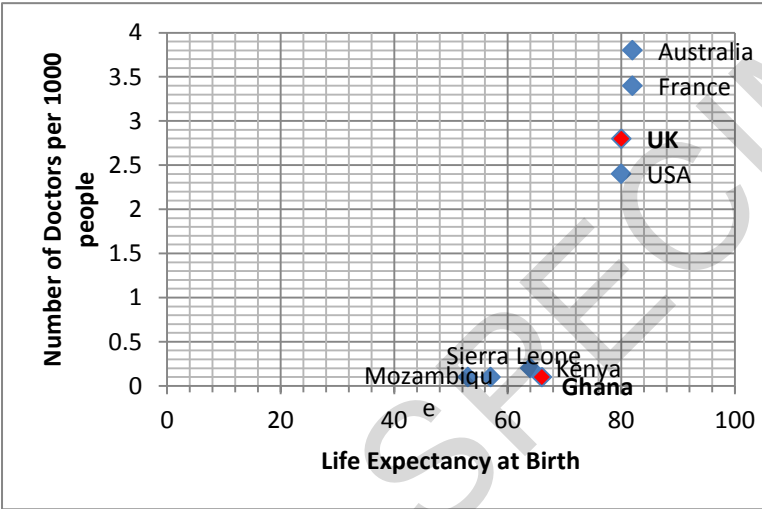
Highest mark: If clear evidence of all the qualities in the level descriptors is shown, the HIGHEST Mark should be awarded.

Lowest mark: If the answer shows the candidate to be borderline (i.e. they have achieved all the qualities of the levels below and show limited evidence of meeting the criteria of the level in question) the LOWEST mark should be awarded.

Middle mark: This mark should be used for candidates who are secure in the level. They are not 'borderline' but they have only achieved some of the qualities in the level descriptors.

Be prepared to use the full range of marks. Do not reserve (e.g.) highest level marks 'in case' something turns up of a quality you have not yet seen. If an answer gives clear evidence of the qualities described in the level descriptors, reward appropriately.

	A01	A02	A03
Comprehensive	A range of detailed and accurate knowledge that is fully relevant to the question.	A range of detailed and accurate understanding that is fully relevant to the question.	Detailed and accurate interpretation through the application of relevant knowledge and understanding. Detailed and accurate analysis through the application of relevant knowledge and understanding. Detailed and substantiated evaluation through the application of relevant knowledge and understanding. Detailed and substantiated judgement through the application of relevant knowledge and understanding.
Thorough	A range of accurate knowledge that is relevant to the question.	A range of accurate understanding that is relevant to the question.	Accurate interpretation through the application of relevant knowledge and understanding. Accurate analysis through the application of relevant knowledge and understanding. Supported evaluation through the application of relevant knowledge and understanding. Supported judgement through the application of relevant knowledge and understanding.
Reasonable	Some knowledge that is relevant to the question.	Some understanding that is relevant to the question.	Some accuracy in interpretation through the application of some relevant knowledge and understanding. Some accuracy in analysis through the application of some relevant knowledge and understanding. Partially supported evaluation through the application of some relevant knowledge and understanding. Partially supported judgement through the application of some relevant knowledge and understanding.
Basic	Limited knowledge that is relevant to the topic or question.	Limited understanding that is relevant to the topic or question.	Limited accuracy in interpretation through lack of application of relevant knowledge and understanding. Limited accuracy in analysis through lack of application of relevant knowledge and understanding. Un-supported evaluation through lack of application of knowledge and understanding. Un-supported judgement through lack of application of knowledge and understanding.

Question			Answer	Marks	Guidance
1	(a)	(i)	In Africa (✓) Just North of the Equator (✓) In West Africa (✓) Between the Equator and the Tropic of Cancer (✓) On the Prime Meridian (✓)	2	2 x 1 (✓)
		(ii)	5:4 (✓)	1	(✓)
	(b)	(i)	Correct placement of UK and Ghana on the scatter graph UK = Life Expectancy at Birth 80, Number of Doctors per 1000 people 2.8 (✓) Ghana = Life Expectancy at Birth 66, Number of Doctors per 1000 people 0.1 (✓) 	2	2 x 1 (✓) Accept within 0.1 range of Doctors per 1000 people Accept within 1 range year for Life Expectancy at Birth on the graph
		(ii)	There is a positive correlation between Doctors per 1000 people and Life Expectancy at Birth (✓).	1	1 x 1 (✓) for describing the relationship shown between the number of doctors per 1000 people and life expectancy
		(iii)	Development indicators show evidence of uneven development by comparing the development of regions or countries (✓). Countries perform differently for the various indicators and these can be used to indicate where a country is on the development spectrum (✓).	3	3 x 1 (✓) 1 mark for each valid point No DEV required

Question			Answer	Marks	Guidance
			Development indicators can be used within countries to shown patterns of uneven development between different geographical areas (✓).		
	(c)		Level 3 (5–6 marks) An answer at this level demonstrates a thorough understanding of the characteristics of LIDCs (AO2) and a thorough analysis of how Ghana is typical of an LIDC (AO3). This will be shown by including well-developed ideas about what an LIDC is and how Ghana is typical of an LIDC. Level 2 (3–4 marks) An answer at this level demonstrates reasonable understanding of the characteristics of LIDCs (AO2) and a reasonable analysis of how Ghana is typical of an LIDC (AO3). This will be shown by including developed ideas about what an LIDC is and how Ghana is typical of an LIDC. Level 1 (1–2 marks) An answer at this level demonstrates basic understanding of the characteristics of LIDCs (AO2) and a basic analysis of how Ghana is typical of an LIDC (AO3). This will be shown by including simple about what an LIDC is and how Ghana is typical of an LIDC. 0 marks No response or no response worthy of credit.	6	Indicative Content Candidates should refer to the figures so should be using references to GNI per capita, Life Expectancy at Birth, Doctors per 1000 people and % access to clean drinking water. There should be some understanding of the characteristics of an LIDC including low GNI per capita, low life expectancy and low number of doctors per 1,000 people. Some candidates may argue that Ghana is developed in some areas such as 87% access to clean water and so is not ‘typical’. Example of well-developed ideas: Ghana is typical of an LIDC to some extent as it is low for some development indicators, such as number of doctors, at just 0.1 per 1000 people. This is at great contrast when compared to an AC, like Australia which has 3.8 doctors per 1000 people. This indicates that Ghana has less money available to develop healthcare systems and lower investment in education for doctors. However, Ghana has 87% access to clean drinking water which is high compared to other LIDC countries such as Kenya with 62% which indicates that it is more than a ‘typical’ LIDC. Example of developed ideas: LIDCs typically have low statistics for development indicators and Ghana has a low number of doctors per 1000 people with just 0.1. This is because there is not enough money to build hospitals so fewer doctors will be employed. It is likely that less people are educated as

Question			Answer	Marks	Guidance
					doctors in the first place. Example of simple ideas: Ghana has low numbers of doctors 0.1 per 1000 people and LIDCs do not have many doctors.

Question			Answer	Marks	Guidance
2	(a)	(i)	Axim has a slightly lower average temperature than Tamale (✓) Tamale had lower average rainfall than Axim (✓) Tamale has a slightly higher average temperature than Axim (✓) with the average temperature in the first few months of the year in Tamale reaching over 30°C (DEV) Axim has higher average rainfall than Tamale (✓) reaching over 500 mm for June compared to about 150 mm (DEV) For most of the year the average temperatures of Tamale and Axim are roughly the same (✓) but the average rainfall differs more significantly with Axim generally being higher (✓), although during August and September Tamale has roughly double the average rainfall of Axim at over 200mm in each month (DEV)	3	1 x 1 (✓) for describing the temperature trend 1 x 1 (✓)for describing the rainfall trend 1 x 1 (DEV)for use of figures from the climate graphs
		(ii)	In Axim most people are food secure (✓) In Axim there is a high percentage of people in food security (✓) In Tamale, there is medium food security (✓) and people there are less food secure than in Axim (✓) In Tamale there is more food security than in the North of Ghana (✓)	2	2 x 1 (✓) 1 mark associated to each place or for a comparative point between places (✓)
	(b*)		Level 4 (10–12 marks) An answer at this level demonstrates a comprehensive understanding of the concept of food security (AO2) and a thorough analysis of the information provided (AO3) to make a thorough judgement as to what extent the physical geography of Ghana causes its pattern of food security (AO3). This will be shown by including well-developed ideas	12	Indicative Content Candidates need to make the link between the physical geography (climate, ecosystems, landscape, soil type, relief) and the pattern of food security for Level 4 answers. Candidates should show a good awareness of the concept of food security and what this means in the context of Ghana.

Question			Answer	Marks	Guidance
			about the concept of food security and an analysis of the information to judge whether the physical geography of Ghana causes its pattern of food security. There are clear and explicit attempts to make appropriate synoptic links between content from different parts of the course of study. There is a well-developed line of reasoning which is clear and logically structured. The information presented is relevant and substantiated. Level 3 (7–9 marks) An answer at this level demonstrates a thorough understanding of the concept of food security (AO2) and a reasonable analysis of the information provided (AO3) to make a reasonable judgement as to what extent the physical geography of Ghana causes its pattern of food security (AO3). This will be shown by including well-developed ideas about either the concept of food security or an analysis of the information to judge whether the physical geography of Ghana causes its pattern of food security and developed ideas about the other question focus (concept or analysis and judgement). There are clear attempts to make synoptic links between content from different parts of the course of study but these are not always appropriate. There is a line of reasoning presented with some structure. The information presented is in the most-part relevant and supported by some evidence.		Candidates should acknowledge that there is a range of different levels of food security. Candidates could link food security to climate, with the north of the country having less rainfall and higher temperatures than the south. Candidates could link food security with the ecosystems with rainforest being more productive than grasslands. Expect reference to the speech bubble opinions. Candidates could link food security with the landscape, with the Atlantic Ocean in the South and Lake Volta in the East. Candidates may reference other factors linked to food security, including human geography factors such as investment programmes, aid, transport links, mechanisation. Examples of well-developed ideas: In Ghana levels of food security vary, with the north of the country being less food secure than the south. This pattern could be due to the warm and wetter weather in the south, near Axim, which will allow communities to farm crops and raise Cattle. Food security exists when all people, at all times, have physical and economic access to sufficient, safe and nutritious food that meets their dietary needs and food preferences for an active and healthy life. Examples of developed ideas: Food security in Ghana varies. The north west of the country has the lowest food security with 35% of the population being food insecure. This can be compared with the south west which has the least food insecure people at just 1%. This could be to do with the fact that people in the

Question			Answer	Marks	Guidance
			Level 2 (4–6 marks) An answer at this level demonstrates a reasonable understanding of the concept of food security (AO2) and a basic analysis of the information provided (AO3) to make basic judgement as to what extent the physical geography of Ghana causes its pattern of food security (AO3). This will be shown by including developed ideas about either the concept of food security or an analysis of the information to judge whether the physical geography of Ghana causes its pattern of food security and simple ideas about the other question focus (concept or analysis and judgement). There are limited attempts to make synoptic links between content from different parts of the course of study. The information has some relevance and is presented with limited structure. The information is supported by limited evidence. Level 1 (1–3 marks) An answer at this level demonstrates a basic understanding of the concept of food security (AO2) and basic or no analysis of the information provided (AO3) to make basic or no judgement as to what extent the physical geography of Ghana causes its pattern of food security (AO3). This will be shown by including simple ideas about either the concept of food security or an analysis of the information to judge whether the physical geography of		south have better weather for growing crops. Examples of simple ideas: There is some food security in Ghana. This can be seen by looking at the map areas in the south showing high food security. It is wetter in the Axim in the south as well.

Question			Answer	Marks	Guidance
			Ghana causes its pattern of food security. There are no synoptic links between content from different parts of the course of study. The information is basic and communicated in an unstructured way. The information is supported by limited evidence and the relationship to the evidence may not be clear. 0 marks No response or no response worthy of credit.		

Question			Answer	Marks	Guidance
3	(a)	(i)	South Ghana (✓) In the rainforest area (✓) West of Accra (✓) North-east of Axim (✓) South-west of Lake Volta (✓)	3	3 x 1 (✓) Description should include three separate and appropriate points for full marks
		(ii)	Log trees (✓) so the trees can be sold for timber (DEV) Grow cocoa (✓) to sell to companies to make chocolate (DEV) Tourism in the NP (✓) work in the gift shops / cafes / hotels (DEV)	4	2 x 1 (✓) for interpreting valid use from the resources 2 x 1 (DEV) for the reason of how this could be a source of income
	(b)		Level 3 (5–6 marks) An answer at this level demonstrates a thorough understanding the impact of human activity on tropical rainforests (AO2) and a thorough evaluation of how much impact human activity is having on Ghana's rainforest (AO3). This will be shown by including well-developed ideas about both the understanding of the impacts of human activity on tropical rainforests and the evaluation of how much human activity is having on Ghana's rainforest. Level 2 (3–4 marks) An answer at this level demonstrates reasonable understanding the impact of human activity on tropical rainforests (AO2) and reasonable evaluation of how much impact human activity is having on Ghana's rainforest (AO3). This will be shown by including developed ideas about the understanding of the impact of human activity on tropical rainforests and/or the evaluation of how much human activity is having on Ghana's rainforest.	6	Indicative Content Human activity can impact tropical rainforests in a number of ways, both positively and negatively. These may include logging, mineral extraction, agriculture and tourism. Evaluation of the impact of human activity may include references to how 25% of Ghana's rainforest has been cut down and that 15% of Ghana's rainforest has become protected areas. The evaluation may focus on the potential use of the deforested areas to help drive Ghana's economic development or the reasons behind the protection of the areas such as for tourism or environmental reasons. Examples of well-developed ideas: Since 1990, Ghana has logged a 25% of its rainforest; this could have had both positive and negative impacts. Some of the best benefits include economic growth such as the creation of jobs and trade. The logged areas could be used for growing crops such as cocoa and the trees could be sold for timber. Some of the worst impacts could be increased flood risk as trees intercept rainwaters. Also loss of the potential gene pool for medicinal value and protection of threatened species.

Question			Answer	Marks	Guidance
			Level 1 (1–2 marks) An answer at this level demonstrates basic understanding the impact of human activity on tropical rainforests (AO2) and basic evaluation of how much impact human activity is having on Ghana’s rainforest (AO3). This will be shown by including simple ideas about the understanding of the impact of human activity on tropical rainforests or the evaluation of how much human activity is having on Ghana’s rainforest. 0 marks No response or no response worthy of credit.		Examples of developed ideas: Ghana has destroyed 25% of its rainforest but it has also protected some. Logging trees means that they can sell it for timber and make money to develop economically, this would have a positive impact on the economy of Ghana but negative impact on the planet. The carbon store would be reduced and threatened species lose their habitat. These impacts are potentially the worst. Example of simple ideas: The rainforest is being cut down to earn money. This has negative impacts.

Question			Answer	Marks	Guidance
4*			Level 4 (10–12 marks) An answer at this level demonstrates a comprehensive interpretation of the information provided to outline Ghana’s level of development including both successes and challenges (AO3). It also shows a comprehensive evaluation of the information provided to propose a strategy (AO3) with a comprehensive understanding of a development strategy (AO2). The answer demonstrates a comprehensive judgement to justify how the strategy would be able to help Ghana develop further with a clear decision reached (AO3). This will be shown by including well-developed ideas about Ghana’s current level of development and one strategy which would allow Ghana to develop further. There are clear and explicit attempts to make appropriate synoptic links between content from different parts of the course of study. There is a well-developed line of reasoning which is clear and logically structured. The information presented is relevant and substantiated. Level 3 (7–9 marks) An answer at this level demonstrates a thorough interpretation of the information provided to outline Ghana’s level of development including both successes and challenges (AO3). It also shows a thorough evaluation of the information provided to propose a strategy (AO3) with a thorough understanding of a development strategy (AO2). The answer demonstrates a thorough judgement to justify how the strategy would be able to help Ghana develop further with a clear decision reached (AO3).	12	Indicative Content Interpretation of information to outline Ghana’s level of development could include reference to data from the development indicators’ table and the Ghana fact file. The development strategy the learner proposes will determine what understanding and evaluation is shown. The decision needs to be appropriate to Ghana and any of the Figs in the Resource Booklet can be used to help justify why the development strategy would be able to help Ghana develop further. Examples of well-developed ideas: Ghana currently has many successes in its development. One success is the increase in ecotourism, such as at Kakum National Park, which has increased its GNI per capita to \$1760 which is well above other LIDC countries such as Kenya. 87% of Ghana’s people have access to clean drinking water; this is relatively high for an LIDC especially when compared to Mozambique at just 49%. However it has not been totally successful, for example in the north of the country 34% of people are food insecure. In the future, I believe that Ghana should invest further in ecotourism through creating biosphere reserves. This would bring in more foreign direct investment while also protecting the rainforest therefor reducing the impacts of deforestation. Examples of developed ideas: Ghana has a range of successes and challenges. One success is that it has more GNI per capita than other LIDC countries at \$1760. This could be partly because of

Question			Answer	Marks	Guidance
			This will be shown by including well-developed ideas about either Ghana’s current level of development or one strategy which would allow Ghana to develop further and developed ideas about the other question focus (level of development or strategy to develop further). There are clear attempts to make synoptic links between content from different parts of the course of study but these are not always appropriate. There is a line of reasoning presented with some structure. The information presented is in the most-part relevant and supported by some evidence. Level 2 (4–6 marks) An answer at this level demonstrates reasonable interpretation of the information provided to outline Ghana’s level of development including both successes and challenges (AO3). It also shows reasonable evaluation of the information provided to propose a strategy (AO3) with reasonable understanding of a development strategy (AO2). The answer demonstrates reasonable judgement to justify how the strategy would be able to help Ghana develop further with a clear decision reached (AO3). This will be shown by including developed ideas about either Ghana’s current level of development or one strategy which would allow Ghana to develop further and simple ideas about the other question focus (level of development or strategy to develop further). There are limited attempts to make synoptic links between content from different parts of the course of		ecotourism to bring in visitors. In the future, Ghana should make more national parks so more people come to visit them and spend money in the area. Examples of simple ideas: Ghana is a poor has a low level of development. This means that people do not have a lot to eat, cannot go to school and have no doctors. The government should try to make more money to improve the country.

Question			Answer	Marks	Guidance
			study. The information has some relevance and is presented with limited structure. The information is supported by limited evidence. Level 1 (1–3 marks) An answer at this level demonstrates basic interpretation of the information provided to outline Ghana’s level of development including both successes and challenges (AO3). It also shows basic or no evaluation of the information provided to propose a strategy (AO3) with basic or no understanding of a development strategy (AO2). The answer demonstrates basic or no judgement to justify how the strategy would be able to help Ghana develop further with a clear decision reached (AO3). This will be shown by including simple ideas about either the Ghana’s current level of development or one strategy which would allow Ghana to develop further. There are no synoptic links between content from different parts of the course of study. The information is basic and communicated in an unstructured way. The information is supported by limited evidence and the relationship to the evidence may not be clear. 0 marks No response or no response worthy of credit.		
			Spelling, punctuation and grammar and the use of specialist terminology (SPaG) are assessed using the separate marking grid in Appendix 1.	3	

APPENDIX 1

Spelling, punctuation and grammar and the use of specialist terminology (SPaG) assessment grid*

High performance 3 marks
• Learners spell and punctuate with consistent accuracy • Learners use rules of grammar with effective control of meaning overall • Learners use a wide range of specialist terms as appropriate
Intermediate performance 2 marks
• Learners spell and punctuate with considerable accuracy • Learners use rules of grammar with general control of meaning overall • Learners use a good range of specialist terms as appropriate
Threshold performance 1 mark
• Learners spell and punctuate with reasonable accuracy • Learners use rules of grammar with some control of meaning and any errors do not significantly hinder overall • Learners use a limited range of specialist terms as appropriate
0 marks
• The learner writes nothing • The learner’s response does not relate to the question • The learner’s achievement in SPaG does not reach the threshold performance level, for example errors in spelling, punctuation and grammar severely hinder meaning

Assessment Objectives (AO) grid

Question	AO1	AO2	AO3	AO4	Marks	SPaG
1(a)(i)				2	2	
1(a)(ii)				1	1	
1(b)(i)				2	2	
1(b)(ii)				1	1	
1(b)(iii)		3			3	
1(c)		3	3		6	
2(a)(i)				3	3	
2(a)(ii)				2	2	
2(b)		6	6		12	
3(a)(i)				3	3	
3(a)(ii)		2	2		4	
3(b)		3	3		6	
4		3	9		12	3
Total		14	29	14	57	3

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Mark Scheme

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