

# **Guidance for marking Controlled Assessment in GCSE Agriculture and Land Use –**

**Summer 2022 submission only**

**(includes amendments to Data Collection marking criteria for Task 1)**

## Guidance for marking Controlled Assessment in GCSE Agriculture and Land Use Summer 2022 only

<b>Task 1: Practical Investigation Planning and Risk Assessment</b>		
<b>Mark Band</b>	<b>Assessment Criteria</b>	<b>Comments and Elaboration</b>
1 [1-6] marks	<p>Making little or no use of relevant specialist terms, where appropriate, candidates:</p> <ul style="list-style-type: none"> <li>• Develop a basic hypothesis based on the topic that states simply what they wish to find out;</li> <li>• Produce a simple plan using limited scientific knowledge;</li> <li>• Identify a limited list of apparatus/equipment requirements and a suitable practical technique with limited detail;</li> <li>• Provide a basic justification of the choice of research method; and</li> <li>• Carry out a basic risk assessment</li> </ul>	<p>Candidates should write a sentence stating what they want to find out. They should write a basic plan; identifying at least three pieces of apparatus (if appropriate) with at least three steps to their practical method and justifying their choice of method in a simple sentence.</p> <p>They should also include a basic risk assessment identifying one hazard.</p> <p>This should all be written in the future tense.</p>
<p>At this level, candidates may require some support and guidance. Spelling, punctuation and grammar are used with some accuracy so the meaning is sometimes clear.</p>		
2 [7-12] marks	<p>Using some relevant specialist terms, where appropriate, candidates:</p> <ul style="list-style-type: none"> <li>• Develop a satisfactory hypothesis, with scientific reasoning, as to the outcomes of the investigation;</li> <li>• Produce a satisfactory plan using appropriate scientific knowledge;</li> <li>• Identify apparatus/equipment requirements and an appropriate technique that will obtain a range of results;</li> <li>• Provide a satisfactory justification for the choice of research methods; and</li> <li>• Carry out a satisfactory risk assessment</li> </ul>	<p>Candidates should write a brief outline stating what they want to find out including a reason for their prediction. They should write a satisfactory plan; with some scientific terms, identifying at least five pieces of apparatus (if appropriate), with at least five steps to their practical method (if appropriate). They should provide one reason for their choice of method.</p> <p>They should also include a risk assessment identifying two hazards.</p> <p>This should all be written in the future tense.</p>
<p>At this level, candidates may require some support and guidance. Spelling, punctuation and grammar are used with some accuracy so the meaning is reasonably clear.</p>		

<b>Task 1: Practical Investigation Planning and Risk Assessment</b>		
<b>Mark Band</b>	<b>Assessment Criteria</b>	<b>Comments and Elaboration</b>
3 [13-18] marks	<p>Using a good range of specialist terms, where appropriate, candidates:</p> <ul style="list-style-type: none"> <li>• Develop a good hypothesis, with good scientific reasoning, as to the outcomes of the investigation;</li> <li>• Produce a detailed plan using a good level of scientific knowledge;</li> <li>• Identify equipment/apparatus and a practical technique that will produce accurate results;</li> <li>• Provide a good justification for the choice of research methods; and</li> <li>• Carry out a good risk assessment, including suggesting how to minimise risks.</li> </ul>	<p>Candidates should write a detailed description stating what they want to find out including detailed reasons for their prediction. They should write a detailed plan; with scientific terms, identifying at least five pieces of apparatus (if appropriate), with at least five steps to their practical method (if appropriate). They should provide two reasons for their choice of method.</p> <p>They should also include a risk assessment identifying two hazards and the steps needed to minimise each risk.</p> <p>This should all be written in the future tense.</p>
At this level, candidates may require some support and guidance. Spelling, punctuation and grammar are used with some accuracy so the meaning is clear.		
4 [19-24] marks	<p>Using a wide range of specialist terms skilfully and with precision, where appropriate, candidates:</p> <ul style="list-style-type: none"> <li>• Develop a detailed hypothesis with detailed and scientific reasoning as to the outcomes of the investigation;</li> <li>• Produce a complex plan using a high level of detailed scientific knowledge;</li> <li>• Identify equipment/apparatus and more than one technical technique to produce a range of accurate results; and</li> <li>• Provide a detailed justification for the choice of research methods; and</li> <li>• Carry out a detailed risk assessment and identify how to minimise each risk and what to do in the event of an incident.</li> </ul>	<p>Candidates should write a very detailed description stating what they want to find out including very detailed reasons for their prediction</p> <p>They should write a very detailed plan with appropriate scientific terms investigating at least two factors, identifying at least five pieces of apparatus (if appropriate), with at least five steps to their practical method (if appropriate)</p> <p>They should provide three reasons for their choice of method.</p> <p>They should also include a risk assessment identifying three hazards and the steps needed to minimise each risk, as well as the hazardous outcomes for each risk.</p> <p>This should all be written in the future tense.</p>
At this level, candidates may require no guidance. Spelling, punctuation and grammar are used with almost faultless accuracy so the meaning is clear.		

**Task 1: Practical Investigation: Data Collection**

<b>Mark Band</b>	<b>Assessment Criteria</b>	<b>Comments and Elaboration</b>
1 [1-4] marks	Candidates may: <ul style="list-style-type: none"><li>• show limited understanding of health and safety issues; and</li><li>• record limited data that may not be accurate.</li></ul>	They should be able to give one explanation for taking safety measures e.g. eye protection. They should record at least three readings.
At this level, candidates may require considerable support and guidance.		
2 [5-8] marks	Candidates may: <ul style="list-style-type: none"><li>• demonstrate satisfactory understanding of health and safety issues; and</li><li>• record a satisfactory number of measurements and/or observations of variable quality.</li></ul>	They should be able to give more than one explanation for taking safety measures. They should obtain and record at least four readings.
At this level, candidates may require some support and guidance.		
3 [9-12] marks	Candidates may: <ul style="list-style-type: none"><li>• demonstrate a good understanding of health and safety issues including at times identifying potential risks and taking appropriate precautions; and</li><li>• record a complete set of measurements and/or observations using appropriate precision</li></ul>	They should give more than two explanations for taking safety measures. They should obtain and record at least five readings with appropriate units of measurement, from at least two chosen methods.
At this level, candidates may require only minimal support and guidance.		

Mark Band	Assessment Criteria	Comments and Elaboration
<p>4 [13-16] marks</p>	<p>Candidates may:</p> <ul style="list-style-type: none"> <li>• demonstrate a high level of understanding of health and safety issues including identifying potential risks and taking appropriate precautions; and</li> <li>• record a complete set of measurements and/or observations using a high degree of precision.</li> </ul>	<p>They should give more than three explanations for taking safety measures.</p> <p>They should obtain and record at least five readings with appropriate units of measurement, from at least two chosen methods.</p>
<p>At this level, candidates may require no guidance.</p>		

### Task 1: Practical Investigation: Analysis and Conclusions

Mark Band	Assessment Criteria	Comments and Elaboration
1 [1-3] marks	Making little or no use of relevant specialist terms, where appropriate, candidates: <ul style="list-style-type: none"><li>• Produce a basic set of results presented in a table and identify a trend in their results;</li><li>• Use a simple graph/chart to display data; and</li><li>• Produce a basic conclusion that may not be linked to the data or hypothesis.</li></ul>	Candidates should record their results in a simple table and display them in simple graphic form, with or without appropriate labelling. They should write a sentence identifying one trend in their results and state a simple conclusion.
At this level, candidates may require considerable support and guidance. Spelling, punctuation and grammar are used with some accuracy so that the meaning is sometimes clear.		
2 [4-6] marks	Using some relevant specialist terms, where appropriate, candidates: <ul style="list-style-type: none"><li>• Produce a satisfactory set of results presented in an appropriate table and identify at least one trend in their results</li><li>• Use an appropriate graph/chart, with labelled axes, to display the data obtained; and</li><li>• Produce a conclusion that is linked to the data or hypothesis.</li></ul>	Candidates should record their results in an appropriate table and display them in a graphical form with labelled axes. They should identify at least one trend in their results and state a satisfactory conclusion, using data to support their conclusion.
At this level, candidates may require some support and guidance. Spelling, punctuation and grammar are used with reasonable accuracy so that the meaning is reasonably clear.		

Mark Band	Assessment Criteria	Comments and Elaboration
3 [7-9] marks	Using a good range of specialist terms, where appropriate, candidates: <ul style="list-style-type: none"> <li>• Produce an accurate set of results presented in a table with appropriate headings and units and use of one form of mathematical technique to process the data and identify appropriate trends in their results;</li> <li>• Use a graph/chart with labelled axes, units and headings to display data; and</li> <li>• Produce a good conclusion linked to the data and hypothesis</li> </ul>	Candidates should record their results in an appropriate table with column headings/units. They should use at least one mathematical technique to process their data and display this processed information in a graphical form with labelled axes including units.  They should be able to identify at least one trend in their results and give a conclusion linked to their data, using data to support their conclusion.
At this level, candidates may require only minimal support and guidance. Spelling, punctuation and grammar are used with considerable accuracy so the meaning is clear.		
4 [10-12] marks	Using a wide range of specialist terms skilfully and with precision, where appropriate, candidates: <ul style="list-style-type: none"> <li>• Produce a comprehensive and accurate set of results presented in a table with appropriate headings and units and use more than one form of mathematical technique to process the data and identify appropriate trends in their results;</li> <li>• Use a range of graphs to display data, using appropriately labelled axes, units and headings; and</li> <li>• Produce detailed conclusions with reference to relevant data and hypothesis.</li> </ul>	Candidates should record their results in an appropriate table with column headings/units and titles.  They should use at least two mathematical techniques; e.g. average, percentage change, to process their data and display this processed information in graphical forms with labelled axes including units and a title.  They should identify at least two trends in their results and give a detailed conclusions linked to their data, using appropriate data to support their conclusions.
At this level, candidates may require no guidance. Spelling, punctuation and grammar are used with almost faultless accuracy so the meaning is clear.		

**Task 1: Practical Investigation: Evaluation**

<b>Mark Band</b>	<b>Assessment Criteria</b>	<b>Comments and Elaboration</b>
1 [1-2] marks	Making little or no use of relevant specialist terms, where appropriate, candidates may: <ul style="list-style-type: none"><li>• Provide a brief evaluation of the investigation, making limited or no reference to the reliability of the results;</li><li>• Give a simple suggestion as to how they could improve the methodology; and</li><li>• Give a basic suggestion for further research that may be relevant to the investigation.</li></ul>	Candidates should write a simple statement on how the investigation has gone, with no reference to the reliability of the results. They should give one way of improving their practical method and a basic suggestion for further research that is not necessarily linked to their investigation.
At this level, candidates may require considerable support and guidance. Spelling, punctuation and grammar are used with some accuracy so the meaning is sometimes clear.		
2 [3-4] marks	Using some relevant specialist terms, where appropriate, candidates: <ul style="list-style-type: none"><li>• Produce a brief evaluation of the investigation, including some reference to the reliability of the results;</li><li>• Give a suggestion as to how they could improve the methodology; and</li><li>• Give an appropriate suggestion for further research that is relevant to the investigation.</li></ul>	Candidates should write a basic statement on how the investigation has gone, with some reference to the reliability of the results. They should give one way of improving their practical method and a suggestion for further research that is linked to their investigation.
At this level, candidates may require some support and guidance. Spelling, punctuation and grammar are used with reasonable accuracy so the meaning is reasonably clear.		



### Task 1: Practical Investigation: Evaluation

Mark Band	Assessment Criteria	Comments and Elaboration
3 [5-6] marks	<p>Using a good range of specialist terms, where appropriate, candidates may:</p> <ul style="list-style-type: none"><li>• Provide an evaluation that considers the processes, techniques and risk assessment used and identify anomalous results and consider the reliability data obtained;</li><li>• Provide relevant suggestions as to how they could improve the methodology; and</li><li>• Give suggestions for further research that are relevant to the investigation.</li></ul>	<p>Candidates should write a detailed evaluation on how the investigation has gone, including a comment on anomalous results and the reliability of the data. They should also make reference to the methods used, with at least two suggested improvements, and the suitability of their risk assessment.</p> <p>They should also give two suggestions for further research that are linked to their investigation.</p>
<p>At this level, candidates may require only minimal support and guidance. Spelling, punctuation and grammar are used with considerable accuracy so the meaning is clear.</p>		
4 [7-8] marks	<p>Using a wide range of specialist terms and skilfully with precision, where appropriate, candidates:</p> <ul style="list-style-type: none"><li>• Provide a detailed and thorough evaluation of the processes, techniques and risk assessment used, giving in depth consideration to the reliability and validity of the data produced and details of any anomalous results;</li><li>• Provide detailed suggestions as to how they could improve the methodology; and</li><li>• Provide detailed suggestions for further research that are relevant to their investigation.</li></ul>	<p>Candidates should write a very detailed evaluation on how the investigation has gone, including a comment on anomalous results and the reliability and validity of the data. They should make reference to the methods used, with at least two suggested improvements detailed, and comments on the suitability of their risk assessment.</p> <p>They should also give two, detailed suggestions for further research that are linked to their investigation.</p>
<p>At this level, candidates may require no guidance. Spelling, punctuation and grammar are used with almost faultless accuracy so the meaning is clear.</p>		



## Task 2: Research Project: Planning

Mark Band	Assessment Criteria	Comments and Elaboration
1 [1-6] marks	Making little or no use of relevant specialist terms, where appropriate, candidates: <ul style="list-style-type: none"><li>• Demonstrate a basic understanding of some of the issues related to the research topic;</li><li>• Produce a basic justification of the choice of the topic;</li><li>• Identify a basic range of primary and/secondary sources; and</li><li>• Provide a basic justification for the choice of research methods.</li></ul>	Candidates should give a simple statement about the chosen topic, giving one reason for the chosen area of focus. They should identify at least one primary and one secondary source and give one reason for the choice of research methods.
At this level, candidates may require considerable support and guidance. Spelling, punctuation and grammar are used with some accuracy so the meaning is sometimes clear.		
2 [7-12] marks	Using some relevant specialist terms and where appropriate, candidates: <ul style="list-style-type: none"><li>• Demonstrate a satisfactory understanding of some of the issues related to the research topic;</li><li>• Produce a satisfactory justification of the choice of topic;</li><li>• Identify a satisfactory range of primary and secondary sources; most of which are appropriate; and</li><li>• Provide a satisfactory justification for the choice of research methods.</li></ul>	Candidates should give a brief description of the chosen topic and related issues, giving more than one reason for the chosen area of focus. They should identify at least one primary and two secondary sources and give more than one reason the choice of research methods.  The secondary sources may be the same type e.g. two distinct websites count as two secondary sources.
At this level, candidates may require some support and guidance. Spelling, punctuation and grammar are used with reasonable accuracy so the meaning is reasonably clear.		

## Task 2: Research Project: Planning

Mark Band	Assessment Criteria	Comments and Elaboration
3 [13-18] marks	<p>Using a good range of specialist terms, where appropriate, candidates may:</p> <ul style="list-style-type: none"><li>• Demonstrate a good understanding of some of the issues related to the research topic;</li><li>• Produce a good justification of the choice of topic;</li><li>• Identify a good range of primary and secondary sources; and</li><li>• Provide a good justification, supported by the appropriateness of the findings, for the choice of research methods.</li></ul>	<p>Candidates should give a detailed description of the chosen topic and related issues, giving more than two reasons (as appropriate) for the chosen the area of focus. They should identify at least one primary and two secondary sources and give more than one reason for the choice of research methods. The research method should allow for the collection of appropriate findings i.e. the research method will allow for the collection of detailed data.</p> <p>The secondary sources may be the same type e.g. two distinct websites count as two secondary sources.</p>
<p>At this level, candidates may require only require minimal support and guidance. Spelling, punctuation and grammar are used with considerable accuracy so the meaning is clear.</p>		
4 [19-24] marks	<p>Using a wide range specialist terms skilfully and with precision, and where appropriate, candidates:</p> <ul style="list-style-type: none"><li>• Demonstrate a detailed understanding of a wide range of the issues related to the research topic;</li><li>• Produce a thorough justification of the choice of topic;</li><li>• Identify a wide range of primary and secondary sources; which are relevant and appropriate; and</li><li>• Provide a justification for the choice of research methods, supported by the high level of relevancy and appropriateness of the findings.</li></ul>	<p>Candidates should give a very detailed description of the chosen topic and related issues, giving more than two reasons (as appropriate) for the chosen the area of focus. They should identify at least one primary and three secondary sources and give more than two reasons for the choice of research methods. The research methods should allow for the collection of appropriate findings i.e. the research method will allow for the collection of very detailed data.</p> <p>The secondary sources may be the same type e.g. two distinct websites count as two secondary sources.</p>
<p>At this level, candidates may require no guidance. Spelling, punctuation and grammar are used with almost faultless accuracy so the meaning is clear.</p>		

**Task 2: Research Project: Data Collection and Presentation of Findings**

Mark Band	Assessment Criteria	Comments and Elaboration
<p>1 [1-6] marks</p>	<p>Candidates may:</p> <ul style="list-style-type: none"> <li>• Carry out research from a limited range of appropriate primary and /or secondary sources;</li> <li>• Record a basic range of findings in a given table; and</li> <li>• Present findings using basic graphical forms</li> </ul>	<p>Candidates should have carried out research from one primary source and/or one secondary source and collected some relevant information. Candidates should have recorded the findings in a table (provided by the teacher) and presented them in a simple graph.</p>
<p>At this level, candidates may require considerable support and guidance. Spelling, punctuation and grammar are used with some accuracy so the meaning is sometimes clear.</p>		
<p>2 [7-12] marks</p>	<p>Candidates may:</p> <ul style="list-style-type: none"> <li>• Collect data from a satisfactory range of primary and secondary sources;</li> <li>• Record a satisfactory range of findings in a table they produced; and</li> <li>• Present findings using satisfactory graphical forms.</li> </ul>	<p>Candidates should have gathered and presented information from at least one primary source and two secondary sources.</p> <p>Candidates should have recorded their results (primary) in a table they have drawn up and presented these results in more than one graphical form.</p>
<p>At this level, candidates may require some support and guidance. Spelling, punctuation and grammar are used with reasonable accuracy so the meaning is reasonably clear.</p>		
<p>3 [13-18] marks</p>	<p>Candidates may:</p> <ul style="list-style-type: none"> <li>• Collect relevant data from a good range of primary and secondary sources;</li> <li>• Record detailed findings in a format they devised; and</li> <li>• Present findings using detailed graphical forms.</li> </ul>	<p>Candidates should have gathered and presented detailed information from at least one primary source and two secondary sources.</p> <p>Candidates should have recorded their results (primary) in a table they have drawn up and presented them in more than one graphical form with appropriate labelling and units.</p>
<p>At this level, candidates may only require minimal support and guidance. Spelling, punctuation and grammar are used with considerable accuracy so that the meaning is clear.</p>		

Mark Band	Assessment Criteria	Comments and Elaboration
<p style="text-align: center;">4 [19-24] marks</p>	<p>Candidates may:</p> <ul style="list-style-type: none"> <li>• Collect relevant data from a wide range of relevant primary and secondary sources that are appropriate;</li> <li>• Record detailed findings in a format they devised including appropriate headings; and</li> <li>• Present findings using highly detailed graphical forms.</li> </ul>	<p>Candidates should have gathered and presented information from at least one primary source and three secondary sources.</p> <p>Candidates should have recorded their (primary) results in a table they have drawn up and presented them in more than one graphical form with appropriate labelling and units (in both tables and graphs).</p>
<p>At this level, candidates may require no guidance. Spelling, punctuation and grammar are used with almost faultless accuracy so that the meaning is clear.</p>		

**Task 2: Research Project: Conclusion - Analysis and Discussion**

<b>Mark Band</b>	<b>Assessment Criteria</b>	<b>Comments and Elaboration</b>
1 [1-6] marks	Making little or no use of relevant specialist terms, where appropriate, candidates: <ul style="list-style-type: none"><li>• Produce a basic conclusion based on a limited review of the research.</li></ul>	Candidates should make a statement about their results and information gathered from secondary sources; and state a conclusion which may or may not be linked to their findings.
At this level, candidates may require considerable support and guidance. Spelling, punctuation and grammar are used with some accuracy so the meaning is sometimes clear.		
2 [7-12] marks	Using some relevant specialist terms, where appropriate, candidates: <ul style="list-style-type: none"><li>• Produce a satisfactory conclusion based on a limited analysis of the research.</li></ul>	Candidates should make at least two statements about their results and information gathered from secondary sources; and state a conclusion which is linked to their findings.
At this level, candidates may require some support and guidance. Spelling, punctuation and grammar are used with reasonable accuracy so the meaning is reasonably clear.		

<b>Task 2: Research Project: Conclusion - Analysis and Discussion</b>		
<b>Mark Band</b>	<b>Assessment Criteria</b>	<b>Comments and Elaboration</b>
3 [13-18] marks	Using a good range of specialist terms, where appropriate, candidates may: <ul style="list-style-type: none"> <li>• Produce a good conclusion based on an analysis of the research.</li> </ul>	Candidates should give a detailed description their results and information gathered from secondary sources, and state a detailed conclusions which is linked to their findings.
At this level, candidates may require only require minimal support and guidance. Spelling, punctuation and grammar are used with considerable accuracy so the meaning is clear.		
4 [19-24] marks	Using a wide range of specialist terms skilfully and with precision, where appropriate, candidates may: <ul style="list-style-type: none"> <li>• Produce a detailed conclusion based on a comprehensive analysis of the research.</li> </ul>	Candidates should give a very detailed description their results and information gathered from secondary sources, and state a very detailed conclusions which is closely linked to their findings.
At this level, candidates may require no guidance. Spelling, punctuation and grammar are used with almost faultless accuracy so the meaning is clear.		



**Task 2: Research Project: Evaluation**

<b>Mark Band</b>	<b>Assessment Criteria</b>	<b>Comments and Elaboration</b>
1 [1-4] marks	Making little or no use of relevant specialist terms, where appropriate, candidates: <ul style="list-style-type: none"><li>• Produce a basic evaluation of the task;</li><li>• Give a simple suggestion as to how the methodology could be improved; and</li><li>• Produce a basic statement about further research related to the topic.</li></ul>	Candidates should make a simple statement on how their task went. They should give one way of improving their research method and one other issue/area of focus related to the topic.
At this level, candidates may require considerable support and guidance. Spelling, punctuation and grammar are used with some accuracy so the meaning is sometimes clear.		
2 [5-8] marks	Using some relevant specialist terms, where appropriate, candidates: <ul style="list-style-type: none"><li>• Produce a satisfactory evaluation of all aspects the task;</li><li>• Give relevant suggestions as to how the methodology could be improved; and</li><li>• Produce some statements for further research.</li></ul>	Candidates should make a basic statement on how their task went in terms of their planning, data collection and conclusion. They should give more than one way of improving their research method and at least two other issues/areas of focus related to the topic.
At this level, candidates may require some support and guidance. Spelling, punctuation and grammar are used with reasonable accuracy so the meaning is reasonably clear.		

## Task 2: Research Project: Evaluation

Mark Band	Assessment Criteria	Comments and Elaboration
3 [9-12] marks	Using a good range of specialist terms, where appropriate, candidates may: <ul style="list-style-type: none"><li>• Produce a good evaluation of all aspects the task;</li><li>• Provide detailed suggestions as to how the methodology could be improved; and</li><li>• Produce relevant and appropriate statements for further research.</li></ul>	Candidates should give a detailed description on how their task went in terms of their planning, data collection and conclusion. They should give at least three ways of improving their research method and at least three other issues/areas of focus related to the topic.
At this level, candidates may require only require minimal support and guidance. Spelling, punctuation and grammar are used with considerable accuracy so that the meaning is clear.		
4 [13-16] marks	Using a wide range of specialist terms skilfully and with precision, where appropriate, candidates: <ul style="list-style-type: none"><li>• Produce a detailed evaluation of all aspects the task;</li><li>• Provide highly detailed suggestions as to how the methodology could be improved; and</li><li>• Produce comprehensive and detailed suggestions for further research.</li></ul>	Candidates should give a very detailed description on how their task went in terms of their planning, data collection and conclusion. They should give at least three ways of improving their research method and at least three other issues/areas of focus related to the topic, with details of how they would carry out this research.
At this level, candidates may require no guidance. Spelling, punctuation and grammar are used with almost faultless accuracy so that the meaning is clear.		