



ORANGE HIGH SCHOOL

ASSESSMENT TASK NOTIFICATION

Subject	Year 11 Agriculture
Topic	Plant Production – Experimental Design
Class Teacher	Mel Campbell
Head Teacher	Dan Wait
Year	11 - 2021
Date Given	16 March 2021
Date Due	Week 10 Tuesday 30th March
Weighting	30%
Submission Type	GOOGLE Classroom - Assessment Task 1

Assessment Outline

Context: You have been asked by a seed company to conduct a trial to investigate the water holding capacity of a range of different soil types and their impact on the success of a new seed variety. You are required to determine how soil moisture could affect germination rates of plants. To successfully prepare the result to your investigation you must

1. Plan and conduct a first hand investigation that collects data about the water holding capacity of soils.
2. Collect data that support water holding capacity of soils
3. Write a scientific report detailing how the experiment was conducted, the results that were found and recommendations for further study.

Non-completion of Task:

If you know you are going to be away on the day that the task is due, you must make alternative arrangements with your teacher beforehand. If you are suddenly away on the day that the task is due, you must contact your teacher or Head Teacher on your return to school. Documentation will be required in both classes.

Plagiarism:

Plagiarism, the using of the work of others without acknowledgement will incur serious penalties and may result in zero award. Any cheating will also incur penalties.

Failure to follow the above procedures may result in a zero award.

The policies and procedures that are outlined on the assessment booklet will be followed regarding the non-completion of assessment tasks.

**Outcomes Assessed:
P2.1,3.1,4.1,5.1**

Marking Rubric Experimental Report

Aim	- Student states the purpose of the experiment including reference	1
Hypothesis	- State in the third person, past tense, the hypothesis in terms of a relationship between an independent and a dependent variable	3
	- State the hypothesis in terms of a relationship between an independent and a dependent variable	2
	- State the hypothesis in terms of a relationship, identifying one variable	1
Materials	- Comprehensive list of all materials used	3
	- Detailed list of materials used	2
	- Basic list of materials used	1
	- Equipment listed not included	0
Method	- Extensive steps required to conduct the experiment including the setup of materials, use of a control, randomisation and replication. Method includes a diagram to show how the method is set out.	8-6
	- Detailed steps required to conduct the experiment including the setup of materials, use of a control, randomisation and replication.	5-4
	- Basic method with	3-2
	- Method not completed or a few components are correct.	2-0
Results	- Accurate, appropriate measurements, including units, of both correct variables, recorded in a table or other appropriate form. Graphical representation of results are included. Validity attained through repetition of tests recorded and averages taken.	10-8
	- Accurate measurements, including units, of both variables, recorded in a table or other appropriate form. Some graphical representation of results are included. Validity attained through repetition of tests recorded.	7-5
	- Measurements, of a variable, recorded in a table or other appropriate form. Some graphical representation of results are included.	4-3
	- Some measurements recorded in a table or other appropriate form.	2-0
Discussion	- Reference made to the experiment and any problems encountered. Analysis of results recorded, including an explanation for any unexpected results. Explanation of any changes made to the design. Interpretation of the results in both table and graph. Results include standard deviation.	15-13
	- References are made to the experiment and any problems encountered. Discussion of results, including an explanation for any unexpected results. Interpretation of the results recorded from table and/or graph.	12-10
	- Sound references are made to the experiment including brief discussion of results. Some interpretation of the results recorded in a table and/or graph.	9-7
	- Basic references are made to the experiment with limited discussion of results.	6-3
Conclusion	- Discussion is limited with no reference to the results	2-0
	- Conclusion clearly stated in terms of the two variables tested in the experiment. extensive statement made to support/reject or partially support the hypothesis.	5
	- Conclusion stated in terms of the two variables tested in the experiment. Sound statement made about the hypothesis.	4-3
	- Conclusion stated in terms of a variable tested in the experiment.	2
Recommendations	- Attempts to write a conclusion	1-0
	- Areas for further research discussed and linked to recommendations	5-4
	- Areas for further research discussed briefly	3-2
Presentation, bibliography and referencing	- Areas for further research are identified in limited detail.	1-0
	- Presentation follows a scientific study layout with all components of the report completed, a correct bibliography is included and in text referencing in the literature review	10-8
	- Presentation includes most sections of a scientific study, a correct bibliography is included	7-5
	- Presentation is basic and does not follow correct scientific study layout, a limited bibliography is included	4-2
	- Presentation is poor and referencing not included	1-0