**Y12 Agriculture 2020 AH 2.1 *“Which Mulch is best”***

**Student: Class: Y12 Agr Teacher: Mr SHannon**

**AS 90450: Agri 2.1 *Carry out a practical agriculture or horticulture investigation with supervision.***

***Version: 2 Assessment: Internal Credits: 4***

#### Assessment Criteria

*The evidence provided shows that the student can:*

| **Achieved** | **Merit** | **Excellence** |
| --- | --- | --- |
| * Carry out a practical agricultural investigation.
 | * Carry out a quality practical agricultural investigation.
 | * Carry out and evaluate a quality practical agricultural investigation.
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| **Assessment Criteria** | **A** | **M** | **E** |
| * **Report**Statement of purpose *“To determine which mulch reduces the loss of water from a soil the best over a 14 day period”.*
 |  |  |  |
| * **Method**
* Identify range for independent variable and measurement of dependent variable

 *ie select at least 3 mulches and weigh the trays to measure water loss.* |  |  |  |
| * Measurement of data and control of some variables discussed.*Collection of valid data*
 |  |  |  |
| * and *including and control of at least 2 variables outlined.*
 |  |  |  |
| * Pattern seeking.

 *Data collected over the 14 day period.* |  |  |  |
| * A valid range of the sample.*At least 4 mulches + control chosen.*
 |  |  |  |
|  Four or more weights recorded to establish a trend over the 14 day period. |  |  |  |
| * Description and control of other variables.*At least three other variables named and described.*
 |  |  |  |
| * **Collect, record and process data relevant to purpose.***“Data recorded in a table or graphical representation attempted.*
 |  |  |  |
| * **Collect, record & process data to enable a valid pattern or trend determined***“Recorded data processed accurately and or graph correctly drawn.*

 *Valid pattern with at least 2 repeats which correctly links to the data collected.”* |  |  |  |
| * **A valid conclusion based on the processed data collected.***“Mulch x has the best water holding.”*
 |  |  |  |
| * **A valid conclusion that links to the purpose of the investigation**.*A Mulch x has the best water holding which means this mulch is the best for plant growth etc*
 |  |  |  |
| * **Evaluation to justify the conclusion.***Evaluation to justify the a) conclusion* ***AND*** *b) on the design of the investigation: reliability of the data, validity of the method* ***AND****c) agriculture and horticulture ideas.*
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**Teacher observation of student participation in practical: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Your results for each activity can be confirmed once your teacher has presented work samples for moderation.

**Comments:**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Teacher Signature:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Student** **Signature:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_