



ORANGE HIGH SCHOOL

ASSESSMENT TASK NOTIFICATION

Subject	Biology
Topic	Cells as the basis of life
Class teacher	Ms Townsend, Ms Constant
Head Teacher	Mr Shea
Year	Year 11
Date given	Term 1 week 11
Due date	Term 2 week 3
Weighting	30% (working scientifically 25%, knowledge 5%)

Assessment Outline

This task will involve you analysing components of a first-hand practical investigation.

It will involve you reading about a conducted first-hand investigation and completing an analysis of the task.

For this task you must have a good understanding of the scientific method. Aim, hypothesis, safety, equipment, material, method, results presentation and analysis, discussion and a scientific conclusion.

There could be questions asked on any aspect of the practicals you have completed this year and an understanding of the biological knowledge involved in those practicals.

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 ROSA booklet will be followed

regarding the non-completion of assessment tasks.

Outcomes Assessed

BIO11 – 1 Develops and evaluates questions and hypotheses for scientific investigation

BIO11 – 2 Designs and evaluates investigations in order to obtain primary and secondary data and information

BIO11 – 5 Analyses and evaluates primary and secondary data and information

BIO11 – 6 Solves scientific problems using primary and secondary data, critical thinking skills and scientific processes

BIO11 – 8 describes single cells as the basis for all life by analysing and explaining cells' ultrastructure and biochemical processes

To allow you to focus on your study prior to this task the following syllabus outcomes may be assessed

- investigate a variety of prokaryotic and eukaryotic cell structures, including but not limited to: drawing scaled diagrams of a variety of cells
- investigate the way in which materials can move into and out of cells,
- conduct a practical investigation to model the action of enzymes in cells
- investigate the effects of the environment on enzyme activity through the collection of primary or secondary data

Specifically you will need to have some understanding of the following practicals

- **Observation under microscopes. Identify cells and basic cell structure seen under a light microscope**
- **Use a microscope and a mini grid to draw a cell to calculate size and use a scale.**
- **Have some understanding of a practical that shows the requirements of plants to grow**
- **A practical to show diffusion and osmosis.**
- **A practical to show how the surface area to volume ratio affects the diffusion of chemicals into cells**
- **A practical to show the effects of the environment on the activity of enzymes.**

- **In addition you must have an understanding of the scientific method for each practical and you may be asked to answer questions on aim, hypothesis, safety, method, equipment, results (including constructing graphs and tables), discussions and conclusions for any of these practical tasks where they are appropriate and you have done them in class.**

Please enter name and date and submit via google classroom

Received and submitted by: _____ on the date: _____