# ORANGE HIGH SCHOOL

## ASSESSMENT TASK NOTIFICATION

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| **Subject** | Biology |
| **Topic** | Cells as the Basis of Life |
| **Class Teacher** | Mrs J. Boardman, Ms J. Huggett, Ms M. Nicholson |
| **Head Teacher** | Ms J. Huggett |
| **Year** | Year 11 |
| **Date Given** | Term 1 Week 11 |
| **Date Due** | Term 2 Week 3 (Specific date to be given by classroom teacher) |
| **Weighting** | 30 % (working scientifically 25%, knowledge 5%) |

**Assessment Outline**

This task will involve you completing a first-hand practical investigation.

It will involve you conducting a practical task 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 working scientifically skills, including enzyme practicals you have completed this year and an understanding of the biological knowledge involved in those enzyme 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.**

**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 – 3** Conducts investigations to collect valid and reliable 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

## The following syllabus outcomes may be assessed during the assessment task:

- 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
- derive trends, patterns and relationships in data and information
- assess the relevance, accuracy, validity and reliability of primary and secondary data and suggest improvements to investigations
- select qualitative and quantitative data and information and represent them using a range of formats, digital technologies and appropriate media
- employ and evaluate safe work practices and manage risks
- justify and evaluate the use of variables and experimental controls to ensure that a valid procedure is developed that allows for the reliable collection of data

## An understanding of the following practicals may help you to answer some questions in the examination:

- Practicals that show the effect of different environmental factors on enzyme activity levels

In addition, you must understand 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.