**Year 11 Biology - Unit One**

**Investigation of Cell Membranes**

**School Assessed Coursework: Outcome 2.**

**Nature Of Task**

Students are to produce a poster on the structure and function of cell membranes.

**Scope Of Task**

* Text - 200 to 400 words plus drawings.
* Students are expected to complete research prior to completing this SAC. The SAC will be completed in 75 minutes of class time on an A3 sheet of poster paper supplied on the day the SAC is completed. Both sides of the A3 sheet may be used.
* No notes or drawings will be allowed to be brought into class.

**Content Of Poster**

The poster should address the following content areas:

1. Understand surface area to volume ratio and why cells need to be small.
2. Description of the structure of the cell membrane.
3. Description of organic compounds found in the cell membrane.
4. Detailed diagram of cell membrane clearly labeled.
5. Functions of cell membrane.
6. Explanation of how substances cross the cell membrane.
7. Explain osmotic pressure with isotonic, hypertonic and hypotonic solutions.
8. A Results table from Practical Investigation on Beetroot Membranes will be given. Questions based on this practical activity will be asked on the poster.

**Work requirement** – The following activities need to be completed to achieve an S grade

* Chapter 4 of Heinemann text should be completed.
* Relevant Biozone pages should be complete
* Beetroot Practical to be completed to a satisfactory standard.

**Date For Completion**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_