Applecross Senior High School

Biological Science 3A/B

Enzyme Investigation

You will complete this investigation in 4 parts: Research, Experiment, Report and Test .

**Research**: Trypsin is an enzyme which digests the protein casein which is present in milk.

At home you will research the enzyme trypsin and write notes on any of the activity.

Record any references you have used.

**Investigation**:

1. In your group you will choose one of the factors which affect the activity of enzymes.

* Temperature
* pH
* concentration of enzyme
* concentration of substrate

Information gained from your research may be helpful in the formulation of this choice.

2. Write an hypothesis for your chosen factor and design an experiment.

3. Make a list of any equipment that is not already in the laboratory and give it to your teacher.

4. On the day designated by you r teacher, your group will complete the experiment and record results.

**Report:**  At home you will write a report on the investigation following the format “Writing your Report”. This will be submitted on the day of your test. **Ten** marks will be awarded for this report (including 4 marks for the graph).

Note: It is expected that you will have the same hypothesis and results as the rest of your group. All other parts of the report are to be your own work.

**Test:** You may use the report you have written to complete the test. **Twenty** marks will be awarded for this test.