

Subject: *A-Level Biology*

Exam Board: *AQA*



Welcome to A-level Biology. We are delighted that you are considering A-level Biology as an option in Year 12. To demonstrate your commitment to the course and to prepare you for September, you must complete the following tasks to the best of your ability. These tasks are compulsory and must be completed before the end of term in July.

We expect you spend around 2 hours completing the tasks outlined in this pack. The activities have been designed to help you begin to develop some of the key skills you will need for A-level Biology. **THIS ACTIVITY WILL NEED HANDING IN BY MONDAY 8th JULY.**

Learning Objectives:

- Follow written instructions and control variables to gather a set of data
- Process and analyse the data you collected
- Carry out statistical tests and interpret the results

Contacts for Support:

Mr Milward, Mr Beech, Mrs North, Mr Gilson, Mrs Maingay – Contact via INSIGHT/visit Science Prep Room

What is Biology?



Biology is the study of all living things!!

One of the most fundamental groups of molecules in organisms are enzymes. Enzymes are proteins that control the speed of chemical reactions in your body. Without enzymes, these reactions would take place too slowly to keep you alive. Some enzymes, like the ones in your gut, break down large molecules into smaller ones. Others, like the enzymes that make DNA, use small molecules to build up large complex ones. Enzymes also help cells to communicate with each other, keeping cell growth, life and death under control. Your task is to analyse the data from the enzyme practical and then complete the attached tasks on standard deviation.

