**Biology**

**Welcome**

Welcome to A-Level Biology. Our aim is for you to develop a strong passion for Biology. We will promote inquisitive thinking, independence and guide you to become a resilient Biologist who appreciates and understands the living world around you. Our Biology curriculum enables students to recognise the power of rational explanation and develop a sense of excitement and curiosity about Biological concepts. All students are encouraged to understand how biological processes can be used to make predictions; formulate experimental methods; conduct experiments; and analyse and explain results.

**Other information**

* The exam board for Biology is AQA.
* The topics you will study are - Biological molecules; Cells; Organisms exchange substances with their environment; Genetic information, variation and relationships between organisms; Energy transfers in and between organisms; Organisms respond to changes in their internal and external environments; Genetics, populations, evolution and ecosystems; The control of gene expression.
* The Biology department will provide you with printed theory booklets and activity packs. However, further reading and revision resources are also required.

Recommended Textbook:

AQA Biology A-Level. Author Glenn Toole and Susan Toole. **ISBN:**978-0-19-835177-1

Recommended revision guide:

CGP A-Level Biology. ISBN: 9781789080261

**Trips and visits**

**Compulsory field trip:**

You will be required to attend a compulsory ecology field trip which is fully funded by the college. This work is an important part of one of the required practicals that you will be completing. The trip usually takes place in second year in September.

**Enrichment opportunities:**

There are many voluntary opportunities that may be available to you including:

Medical science academy; STEM science academy; Biology Olympiad; University visits; Operating Theatre Live; Biomedical masterclasses; STEM faculty taster days; Engineering international talks; Robotics workshops.

**Equipment List**

**You must come to college prepared to learn with the following equipment every lesson:**

Black pen; red pen; pencil; sharpener; A4 ruler; eraser; scientific calculator; highlighter.

A4 Lined paper pad.

A4 lever arch file with at least 11 dividers – This is to keep all of your work in.

Lab coat (optional).

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