

**Subject: Biology**

**Exam board: AQA**

**Year group: Year 9 to 11(new 2015 specification)**

### Curriculum Map

## **Year 9 (Sept-July)**

**Term 1 - Cell Biology:** The study of Prokaryotic and eukaryotic cells. Growth and development of cells and cell metabolism including practical skills in microscopy.

**Term 2 - Cellular organisation:** Studying organisational hierarchy from cells to organ systems including the Digestive, Circulatory, Respiratory, Nervous, Endocrine, Reproductive and Excretory Systems.

**Term 3 - Infection and response** - Students will study Health and disease. Communicable diseases. Treating, curing and preventing disease as well as Non-communicable diseases in humans.

## **Year 10 (Sept-July)**

**Term 1 - Bioenergetics:** Students will study Respiration metabolism and photosynthesis and link knowledge to previous topics.

**Term 2 - Homeostasis and response:** Emphasis of this topic is on homeostasis in humans but will also include Nervous coordination and control in humans. Hormonal coordination and control in humans and plant hormones.

**Term 3 - Inheritance, variation and evolution** - Students will study: Reproduction, the genome and gene expression, inheritance, variation and evolution, selective breeding and gene technology.

## **Year 11 (Sept-May)**

**Term 1 - Ecology:** Students will study: Levels of organisation within an ecosystem, the principle of material cycling, pyramids of biomass and transfer through trophic levels, biodiversity as well as some of the biological challenges of increasing food yields using fewer resources.

**Term 2:** Review of core practicals and start revision of all topics

**Exam Board, Qualification and Specification Code:**

**AQA**

**Combined Science (8464)**

**Biology only (8461)**

**Useful Websites and Resources:**

Revision World - <https://revisionworld.com/gcse-revision>

CGP books - [https://www.cgpbooks.co.uk/interactive\\_gcse\\_science](https://www.cgpbooks.co.uk/interactive_gcse_science)

<http://www.aqa.org.uk/subjects/science/gcse/biology-8461> This website has a summary of what students need to know for their GCSE Biology studies across all years.

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