

## BIOLOGY – Year 10

<b>Course Title: Biology</b>	<b>Exam Board: AQA</b>	<b>Specification Code: 8461</b>
<p><b>How will students be assessed?</b></p> <p>Students will sit two external exams at the end of Year 11. Each paper is worth 50% of their final GCSE grade. Both exams will be 1 hour and 45 minutes in length requiring students to answer multiple choice, structured, closed short answer and open response questions. Questions will be knowledge based as well as drawing on the practical work that students have completed throughout the course.</p> <p><b>Biology GCSE Paper 1:</b> This will assess the topic areas of cell biology, organisation, infection and response and bioenergetics</p> <p><b>Biology GCSE Paper 2:</b> This will assess the topic areas of homeostasis and response, inheritance, variation and evolution and ecology</p>		

<b>KEY CONTENT</b>
<p><b>Half Term 1</b></p> <p>The heart and blood vessels Blood Lungs Coronary Heart disease, health issues, lifestyle and cancer</p> <p><b>Assessment on the circulatory system</b></p>
<p><b>Half Term 2</b></p> <p><b>Infection and response</b></p> <p>Communicable diseases, viral, bacterial, fungal and protist Plant disease defenses Human defense system Vaccination Antibiotics, painkillers and the development of drugs</p> <p><b>Assessment on infection and response</b></p> <p>Monoclonal antibodies</p> <p><b>Exam questions on monoclonal antibodies and plant disease</b></p>

**Half Term 3****Bioenergetics**

Respiration

Metabolism

**Assessment on respiration****Half Term 4****Bioenergetics**

Structure of plants

Photosynthesis

Uses of glucose

**Assessment on photosynthesis****Half Term 5****Homeostasis**

The nervous system

The brain

The eye

Body temperature

**Assessment homeostasis – Nervous control****Half Term 6****Homeostasis**

Human endocrine system

Kidneys

Blood glucose

Hormones in human reproduction, contraception and fertility

Negative feedback loops

Plant Hormones

**Assessment on hormonal control**