

Key Stage 5

<p>Curriculum Aims</p> <ul style="list-style-type: none"> To encourage independent learners, listeners and thinkers To deliver an enjoyable course, that will stimulate interest and enthusiasm in Biology and develop an interest in further study and careers associated with the subject To develop essential knowledge and understanding of different areas of the subject and how they relate to each other To develop competence and confidence in a variety of practical, mathematical and problem-solving skills To develop and demonstrate a deep appreciation of the skills, knowledge and understanding of scientific methods To understand how society makes decisions about scientific issues and how the sciences contribute to the success of the economy and society 	<p>What will you see in Biology lessons?</p> <ul style="list-style-type: none"> Students will build on skills that they have learnt at Key Stage 4. Students will be encouraged to be inspired, motivated and challenged by the key ideas in Biology such as the importance of biological molecules, cell theory and evolution. Students will perform regular practical activities to develop their experimental technique, apply scientific methods and consolidate their understanding. Students will further develop their independent thinking by applying scientific knowledge and solving problems set in practical contexts. and so, Students will communicate their ideas using scientific terminology. 	<p>What will you see in students' Biology lab books?</p> <ul style="list-style-type: none"> Checklists Experimental write ups which contribute towards the Practical Endorsements - to include hypotheses, plans, analyses, graphs, statistical tests and evaluations as appropriate.
<p>Curriculum Content and sequencing</p> <p>Year 12</p> <ul style="list-style-type: none"> Biological molecules Cells Organisms exchange substances with their environment Genetic information, variation and relationships between organisms <p>Year 13</p> <ul style="list-style-type: none"> 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 (A-level only) 	<p>What formative assessment will you see in Biology?</p> <ul style="list-style-type: none"> Regular homework assignments Regular mid-topic and end of topic tests consisting of past paper questions. These are marked by the teacher who also provides feedback. Students undertake a self-evaluation process for these key assessments whereby they identify strengths, weaknesses and set targets. Twelve required practicals which contribute towards the practical endorsement. Students have a mock exam at the end of Y12 and in January of Y13. 	<p>What is the faculty currently reading and discussing and why?</p> <ul style="list-style-type: none"> The journal of Biological education - an international quarterly journal featuring the latest research into biology teaching, learning and assessment. The Biologist - The Royal Society of Biology membership magazine. Published six times a year, this is an excellent source of classroom material.

