

## Sixth Form Subject Information

# Biology



<b>Qualification</b>	A-Level
<b>Exam Board</b>	OCR A Specification
<b>Course Leader</b>	Mr P. Chapman
<b>Course summary</b>	We will learn how plants, animals and single-celled organisms survive, through a range of themed topics. Many of the topics will start with ideas you have covered before and then extend them to a higher level of detail. We will explore the links between the topics and investigate practically the themes in each unit.
<b>What will students learn?</b>	<p><b><u>Year 12</u></b></p> <ul style="list-style-type: none"><li>• How plants and animals gain the nutrients and gases they need for survival, and how these are transported around the organism.</li><li>• About cells and the organelles they contain using microscopes, and test for biological molecules.</li><li>• How and why organisms are classified and the importance of biodiversity</li><li>• How organisms can spread diseases and how these diseases are fought.</li></ul> <p><b><u>Year 13</u></b></p> <ul style="list-style-type: none"><li>• How organisms obtain energy from the environment via photosynthesis and respiration, and get rid of waste.</li><li>• How organisms communicate internally via nerves and hormones.</li><li>• How and why organisms vary, and how this information can be manipulated using new technologies.</li><li>• How ecosystems can be managed sustainably for future generations, and the impacts of humans on the environment.</li></ul>
<b>How will students be assessed?</b>	At the end of the second year there will be 3 papers totalling 6 hours of questions covering all of the content from the two years. You will also keep a log book of all the practical work completed in the two years for the Practical Endorsement aspect of the qualification.