

## Sixth Form Subject Information

# Biology



<b>Qualification</b>	A-Level	
<b>Exam Board</b>	OCR A Specification	
<b>Course Leader</b>	Mrs Golley, Mrs Bird and Mrs White	
<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>	<b>Yr 12 content</b>	<p>We will learn</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>
	<b>Yr 13 content</b>	<p>We will learn about</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.	
<b>Differentiation</b>	Each chapter has a Thinking Bigger section which links the content covered to the wider topic of biology, e.g. The application of fats in the diet to risks of coronary heart disease.	
<b>Resources</b>	OCR AS/A level Biology A Student Book 1 (+ ActiveBook) ISBN: 9781447990796 Student Book 2 (+ ActiveBook) ISBN: 9781447990802	

