Sixth Form Subject Information

Biology

Qualification	A-Level	
Exam Board	OCR A	
Course Leader	Miss Golley	
Course summary	An inspiring course which builds upon knowledge and understanding from Biology/ Combined Science at GCSE level. Biology develops knowledge and understanding of a wide array of structures and processes in all shapes and sizes. From the very small, such as glucose molecules, up to the very large, such as different biomes around the World.	
What will students learn?	**Yr 12 content**	We will learn • What can be found inside different cells using an electron microscope. • How and why cells are different from each other. • How are biological molecules grouped together to help to explain their functional use. • How are exchange surfaces designed to transport materials effectively over a membrane. • How are plants and animals designed to transport different materials around effectively. • How communicable diseases can be spread and how our body defends itself • How different factors can affect biodiversity and what can be done to preserve it
	Yr 13 content	We will learn about • How organisms obtain energy from the environment via photosynthesis and respiration, and get rid of waste. • How organisms communicate internally via the nervous and endocrine system. • How and why organisms vary, and how this information can be manipulated using new technologies. • How ecosystems can be managed sustainably for future generations, and the impacts of humans on the environment.
How will students be assessed?	At the end of the second year there will be 3 papers 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.	
Differentiation	The teacher will ensure that you are supported and stretched dependent on your grasp of the concepts covered.	

	You will be given a course textbook. Each chapter has a Thinking Bigger section which links the content covered to a broader context, e.g. The application of fats in the diet to risks of coronary heart disease.
Resources	OCR AS/A level Biology A Student Book 1 (+ ActiveBook) - ISBN: 9781447990796 Student Book 2 (+ ActiveBook) - ISBN: 9781447990802