



## Biology Plan for 21/22

Year 12		
Term	Topic	Inquiry Question
Autumn	Biological Molecules	<i>What are the building blocks of living matter, and how can we detect the presence of these using chemical tests?</i>
	Cell Structure	<i>What are cells made from and how can we see these using microscopes?</i>
	Nucleotides and Nucleic acid	<i>How are the structures of nucleotides and nucleic acids related to the storage of genetic information?</i>
	Enzymes	<i>How do enzymes speed up biological reactions?</i>
Spring	Biological membranes	<i>How do cell membranes allow for the transport of substances, and the communication between cells</i>
	Cell division	<i>How do cells undergo mitosis, and how can this be seen with a microscope? How can our knowledge of stem cells help us make medical advances in the future?</i>
	Transport	<i>How does the structure of gas exchange and transport systems relate to their function?</i>
	Communicable diseases	<i>As organisms are surrounded by pathogens, what defences have evolved against them? How can medical intervention be used to support these natural defences?</i>
Summer	Biodiversity	<i>How can biodiversity be maintained at local, national and global level?</i>
	Classification and evolution	<i>How has evolution resulted in the wide variety of organisms? How can we classify these organisms?</i>