

Subject Name:	Science
Key Stage 5 (A Level Biology)	
Curriculum Intent Statement	
<p>As Science teachers, it is our intent is to provide a science curriculum, which will develop scientific knowledge, skills and conceptual understanding through the disciplines of Biology, Chemistry and Physics. Our teaching of science must encourage students to be scientifically literate, think critically about the world, so that in their futures they will recognise the impact of science on their everyday lives.</p>	
Autumn Term 1	
<p>Biological molecules</p> <ul style="list-style-type: none"> • Monomers • Carbohydrates • Lipids • Proteins <p>Cell structure</p> <ul style="list-style-type: none"> • Structure of eukaryotic cells • Structure of prokaryotic cells • Methods of studying cells 	
Autumn Term 2	
<p>Biological molecules</p> <ul style="list-style-type: none"> • Proteins as enzymes • Structure of RNA and DNA • DNA replication <p>Cell structure</p> <ul style="list-style-type: none"> • Mitosis • Transport across cell membranes • Cell recognition and immune system 	

Spring Term 1

Biological molecules

- ATP
- Water
- Inorganic molecules
- DNA, genes and chromosomes
- DNA and protein synthesis

Spring Term 2

- Genetic diversity
- Genetic diversity and adaptation
- Species and taxonomy
- Biodiversity within a community
- Surface area to volume ratio

- Gas exchange
- Digestion and absorption
- Mass transport in animals

Summer Term 1

- Investigating diversity
- Mass transport in plants

Summer Term 2

- Work experience & Academy exams