

# Biology Long Term Plan Year 9 2019-20

## Temperance Term

<b>W/C</b>	2nd September	9th September	16th September	23rd September	30th September	7th October	14th October	21st October
Topic	<b>B1 - Cell Biology</b>							
	Students should be able to, when provided with appropriate information, explain how the structure of different types of cell relate to their function in a tissue, an organ or organ system, or the whole organism.							
Challenge	Use estimations and explain when they should be used to judge the relative size or area of sub-cellular structures							
Assessment	B1 mid-unit exams and review							
<b>W/C</b>	<b>HALF TERM</b>	4th November	11th November	18th November	25th November	2nd December	9th December	<b>CHRISTMAS</b>
Topic		<b>B1 - Cell Biology</b>						
		Students should be able to describe how to prepare an uncontaminated culture using aseptic technique. Students should be able to calculate the number of bacteria in a population after a certain time if given the mean division time.						
Challenge		Explain how electron microscopy has increased understanding of sub-cellular structures.						
Assessment		B1 unit exams and review						

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## Justice Term

<b>W/C</b>	6 <sup>th</sup> January	13 <sup>th</sup> January	20 <sup>st</sup> January	27 <sup>th</sup> January	3 <sup>rd</sup> February	10 <sup>th</sup> February	<b>HALF TERM</b>
Topic	<b>B2 - Organisation</b>						
	Students should know the structure and functioning of the human heart and lungs, including how lungs are adapted for gaseous exchange. Students should be able to describe the relationship between health and disease and the interactions between different types of disease.						
Challenge	Students should be able to evaluate the advantages and disadvantages of treating cardiovascular diseases by drugs, mechanical devices or transplant.						
Assessment	B2 mid unit exams and review						
<b>W/C</b>	24 <sup>th</sup> February	2 <sup>nd</sup> March	9 <sup>th</sup> March	16 <sup>th</sup> March	23 <sup>rd</sup> March	30 <sup>th</sup> March	<b>EASTER</b>
Topic	<b>B2 - Organisation</b>						
	Diseases, both communicable and non-communicable, are major causes of ill health. Other factors including diet, stress and life situations may have a profound effect on both physical and mental health.						
Challenge	Evaluate the power of monoclonal antibodies and consider any ethical issues						
Assessment	B2 unit exams and review						

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## Courage Term

<b>W/C</b>	20 <sup>th</sup> April	27 <sup>th</sup> April	4 <sup>th</sup> May	11 <sup>th</sup> May	18 <sup>th</sup> May	<b>HALF TERM</b>
Topic	<b>B3- Infection and response</b>					
	Students should be able to explain how diseases caused by viruses, bacteria, protists and fungi are spread in animals and plants.					
Challenge	Justify how the immune system fights against disease successfully.					
Assessment	B3 mid-unit exams and review					
<b>W/C</b>	1 <sup>st</sup> June	8 <sup>th</sup> June	15 <sup>th</sup> June	22 <sup>nd</sup> June	29 <sup>th</sup> June	6 <sup>th</sup> July
Topic	<b>KS3 Internal Exams</b>	<b>B3- Infection and response</b>				
		Students should be able to describe physical and chemical plant defence responses.				
Challenge		Justify how physical and chemical defences ensure the organism is kept safe.				
Assessment		B3 unit exams				