

Biology Long Term Plan Year 10 2019-20

Temperance Term

W/C	2nd September	9th September	16th September	23rd September	30th September	7th October	14th October	21st October
Topic	B3- Infection and response							
	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 and end of unit exams							
W/C	HALF TERM	4th November	11th November	18th November	25th November	2nd December	9th December	CHRISTMAS
Topic		B3- Infection and response						
		Students should be able to describe photosynthesis as an endothermic reaction in which energy is transferred from the environment to the chloroplasts by light.						
Challenge		Explain the effects of temperature, light intensity, carbon dioxide concentration, and the amount of chlorophyll on the rate of photosynthesis						
Assessment		B3 mid term exam						

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Justice Term

W/C	6 th January	13 th January	20 st January	27 th January	3 rd February	10 th February	HALF TERM
Topic	B4 – Bioenergetics						
	Describe cellular respiration as an exothermic reaction which is continuously occurring in living cells.						
Challenge	Explain the importance of sugars, amino acids, fatty acids and glycerol in the synthesis and breakdown of carbohydrates, proteins and lipids.						
Assessment	Mid term and end of unit exams						
W/C	24 th February	2 nd March	9 th March	16 th March	23 rd March	30 th March	EASTER
Topic	B5 – Homeostasis and response						
	Describe how the body self regulates to maintain a constant environment. Extract and interpret data from graphs, charts and tables, about the functioning of the nervous system.						
Challenge	Relate the structures of the eye to their functions.						
Assessment	Mid term and end of unit exams						

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Courage Term

W/C	20 th April	27 th April	4 th May	11 th May	18 th May	HALF TERM
Topic	B6 – Homeostasis and response					
	Describe the principles of hormonal coordination and control by the human endocrine system.		Year 10 Mock Exams			
Challenge	Explain how insulin controls blood glucose (sugar) levels in the body.					
Assessment	Mid term and end of unit exams					
W/C	1 st June	8 th June	15 th June	22 nd June	29 th June	6 th July
Topic	Work Experience	B7- Ecology				
		Describe processes within a community including interdependence. Extract and interpret information from charts, graphs and tables relating to the interaction of organisms within a community.				
Challenge		Explain how organisms are adapted to live in their natural environment, given appropriate information.				
Assessment		End of unit exams				