

Biology Long Term Plan Year 10 2020-21

Temperance Term

W/C	7th September	14th September	21th September	28th September	5th October	12th October	19th October	HALF TERM
Topic	Review	B3- Infection and response						
	Review of Y10 home learning	Students should be able to explain how diseases caused by viruses, bacteria, protists and fungi are spread in animals and plants.						
Challenge	Grade 7, 8, 9 challenge questions	Justify how the immune system fights against disease successfully.						
Assessment	Self assessment and in-class tests	End of unit exams						
W/C	2nd November	9th November	16th November	23rd November	30th November	7th 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	End of Unit exams							

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Justice Term

W/C	4 th January	11 th January	18 st January	25 th January	1st February	8 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	22 nd February	1 st March	8 th March	15 th March	22 nd March	29 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	19 th April	26 th April	3 rd May	10 th May	17 th May	24 th May	HALF TERM
Topic	B6 – Inheritance, variation and evolution						
	Describe the principles of hormonal coordination and control by the human endocrine system.						
Challenge	Explain how insulin controls blood glucose (sugar) levels in the body.						
Assessment	Mid term and end of unit exams						
W/C	7 th June	14 th June	21 st June	28 th June	5 th July	12 th July	SUMMER
Topic	B7- Ecology						
	Year 10 Mock Exams	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					