Long Term Curriculum Plan Biology

At Bournemouth School, the science curriculum aims to inspire a future generation of scientists, igniting curiosity and wonder in students and developing their understanding of the world around them. Practical activities are used regularly to support theoretical application of knowledge and to develop research and analytical skills. High quality teaching provides purposeful, stimulating lessons, providing a rich depth of knowledge, enabling students to become critical thinkers and contribute to shaping a better world.

The Biology curriculum aims to capture and extend our students' natural curiosity about scientific principles. We build skills that all scientists need such as investigative skills, an awareness of ethics and safety, an analytical mind set and an ability to apply knowledge to unfamiliar contexts. Our curriculum aims to challenge all students and facilitate further studies or potential careers in the subject.

"About 3.8 billion years ago, on a planet called Earth, certain molecules combined to form particularly large and intricate structures called organisms. The story of organisms is called Biology."

Yuval Noah Harari

3 year roadmap	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 9	B1a Cell Structure	B1b Cell Division and Transport in Cells	B2a Organisation and Digestion	B2b Heart and health	B2c Plants B4a Photosynthesis	B4a Photosynthesis B4b Respiration
Year 10	B3 Infection and Response	B5a The Human Nervous System	B5b Hormone Co-ordination in Humans B5c Plant Hormones	B5c Plant Hormones B7a Ecosystems	B7a Ecosystems	B7b Biodiversity B7c Food production
Year 11	B6a Inheritance	B6b Variation	B6c Evolution B6d Classification	Revision	Revision	

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Sixth form roadmap	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
YEAR 12	Introduction to Biology CH1 Carbs and lipids CH1 Proteins	CH1 Proteins and Enzymes CH2 Nucleic acids	CH2 ATP, water and ions CH8 DNA, Genes and Chromosomes	CH9 Genetic Diversity CH10 Biodiversity	Revision CH10 Biodiversity Formal Assessments	CH 19 Pops in Ecosystems
	Introduction to Biology CH3 Cell structure	CH3.7-8 Cell cycle and mitosis CH4 Transport across cell membranes	CH4 Transport across cell membranes CH5 Immunity	CH6 Exchange	CH6 Exchange CH7 Mass transport Formal Assessments	CH7 Mass transport CH7 Plant transport
YEAR 13	CH18 Pops and evolution CH17 Genetic crosses and chi squared	CH20 Gene expression	CH21 Gene technologies	CH21Gene technologies CH 16 Homeostasis	CH 16 Homeostasis Revision	
	CH 12 Respiration CH 11 Photosynthesis	CH13 Energy and Ecosystems CH 14 Response to stimuli	CH15 Nervous Co ord	CH15 Muscles	Revision	