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."

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	

Yuval Noah Harari

Assessments for KS4

Year 9 tests	Торіс	Year 10 tests	Торіс	Year 11 tests	Тор
w/c 14/10/24 B1a Cell Structure		w/c 21/10/24	B2c Plants B3 Infection and response	w/c 21/10/24	B1a B1b B6a
w/c 2/12/24	B1a Cell structure B1b Cell division and cell transport w/c 16/12/24 B1a Cell Structure B5a Human nervous system		w/c 2/12/24	Mod	
w/c 10/02/25	B1a Cell structure B1b Cell division and cell transport B2a Organisation and digestion	w/c 10/03/25	B1b Cell division B5b Hormonal co-ordination in humans	w/c 10/03/25	Mod
w/c 05/05/25	B2a Organisation and digestion B2b Heart and health B2c Plant tissues, organs + systems B4a Photosynthesis	w/c 28/04/25	MOCKS: B1a + b Cell biology B2a, b, c Organisation B3 Infection and response B5a, b, c Homeostasis + response		
w/c 16/06/25	16/06/25END OF YEAR ASSESSMENT B1a Cell structure B1b Cell division and cell transport B2a Organisation and digestion B2b Heart and health B2c Plant tissues, organs + systems B4a Photosynthesis B4a Photosynthesis B4b RespirationB4a Photosynthesis B7a Ecosystems B7b Biodiversity B7c Food production				

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1a Cell structure 1b Cell division and cell transport 6a Reproduction

lock paper 1

lock paper 2

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	

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ear 12	Teacher A			Teacher B		
Date	Content	TATS	Required prac.	Content	TATS	Requir
1	INTRO to BIOLOGY - LIBRARY	_		INTRO to BIOLOGY -RP	_	
2	INTRO to BIOLOGY - LIBRARY		4 –	INTRO to BIOLOGY -RP		
3						R
4 5	CH1 Carbs and lipids	Starch		CH3 Cell structure	Microscopy	
6		Starch				
7	CH1 Proteins			CH3 TEST		
· ·	CHEHOCEIS		Half Ter			
1		Protein				
2	CH1 Proteins and Enzymes		RP1	CH3. 7-8 Cell cycle and mitosis	Mitosis	R
3		Comp Inhib		,		
4	CH1 TEST					1
5		DNA		CHA Transport proper coll membranes		
6	CH2 Nucleic acids	Replication		CH4 Transport across cell membranes		R
7						
			Christm			
1	CH2 ATP, water and ions	Water		CH4 TEST		
2	CH1 and 2 TEST					
3 4	CH1 and 2 TEST	Transminting		CH5 Immunity P	Dhannataria	
5	CH8 DNA, Genes and Chromosomes	Transcription Translation			Phagocytosis	
6	cha biva, denes and chromosomes	Translation				
0			Half Ter	rm		
1				CH5 TEST		
2	CH9 Genetic Diversity					
3						
4	CH8 and 9 TEST			CH6 Exchange	Lungs	
5			225			
6	CH10 Biodiversity		RP6			
			Easter			
			Year	# 12 MOCKS		
1			1	r 12 MOCKS		
2				CH6 Exchange		
2 3	CH10 Biodiversity					R
2 3 4	CH10 Biodiversity		-		_	R
2 3 4	CH10 Biodiversity			CH6 Exchange CH7 Mass transport		R
2 3 4 5	CH10 Biodiversity		Half Ter	CH6 Exchange CH7 Mass transport		R
2 3 4 5 1	CH10 Biodiversity			CH6 Exchange CH7 Mass transport rm		R
2 3 4 5 1 2	CH10 Biodiversity			CH6 Exchange CH7 Mass transport		R
2 3 4 5 1 2 3	CH10 Biodiversity CH19 Pops in Ecosystems	Succession		CH6 Exchange CH7 Mass transport rm		R
2 3 4 5 1 2 3 4 5 5		Succession	Half Ter	CH6 Exchange CH7 Mass transport rm		R
2 3 4 5 1 2 3 4 5 6		Succession	Half Ter	CH6 Exchange CH7 Mass transport rm CH7 Mass transport End of year test		R
2 3 4 5 1 2 3 4 5		Succession	Half Ter	CH6 Exchange CH7 Mass transport rm CH7 Mass transport End of year test CH7 Plant transport		R

