KS4 Curriculum Overview (GCSE BIOLOGY)

YEAR 11

Year 2 GCSE/BTEC Option Subjects

TERM 1 TOPIC/s	*Key Skills/Subject Links	*Career links & BV
Ecology:	Evaluate the benefits and	Career Links
B16 Adaptations,	problems associated with genetic	Botanist, Biomedical engineer, Journalist, forest
interdependence, and	engineering and selective	warden.
competition (continued)	breeding in agriculture and	
Genetics and reproduction: B14 Variation and evolution	medicine.	British values
B14 Variation and evolution		Individual Liberty:
	Psychology Link – Nature and	Ethics of Genetically Modified (GM) food and
	nurture.	genetic engineering.
		Mutual respect and Tolerance:
		Opportunity to discuss ethics of selective
		breeding and adult cloning.
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TERM 2 TOPIC/s	*Key Skills/Subject Links	*Career links & BV Career Links
Genetics and reproduction: B15 Genetics and evolution	The binomial naming system and	Geologist, botanist, paleontologist, laboratory
B15 Genetics and evolution	writing scientific names.	assistant, conservationist.
	Analysis of fossil records.	assistant, conservationist.
		British values
		Mutual respect and Tolerance:
		Opportunity to discuss Darwin's theory of
		evolution by natural selection and conflicts with
		religious beliefs.
		Mutual respect and Tolerance:
		Students learn about the continual evolution of
		scientific ideas which occurs through the
		acceptance that different people have different
		ideas about a concept, e.g., evolution and the
		ideas of Lamarck, Darwin and Wallace.
TERM 3 TOPIC/s		*Career links & BV
-	*Key Skills/Subject Links	
Ecology: B17 Organising an	Data analysis, interpreting	Career Links
ecosystems	population graphs, labelling	Biologist, Arboricultural officer, Countryside
B18 Biodiversity and	carbon cycle processes.	officer, Environmental consultant, Horticultural
ecosystems		manager Journalist, forest warden.
,	Practical skills: Investigating the	Water treatment specialist, recycling operative.
	rate of decay of milk.	
		British values
		Individual Liberty:

TERM 4 TOPIC/s	Geography Link – Carbon cycle, global warming, biodiversity. Chemistry Link – pH.	There are opportunities for students to work independently and make choices in a safe environment when carrying out investigations. Persuading gardeners to use peat-free compost. Opportunities to discuss breeding programmes for endangered species, recycling resources. The Rule of Law: Maintaining biodiversity, managing waste and pollution, fishing regulations. *Career links & BV
TERIVI 4 TOPIC/S	*Key Skills/Subject Links	Career links & BV
GCSE Course completed: Revision programme: Paper 1 and Paper 2.	N/A	N/A
TERM 5 TOPIC/s	*Key Skills/Subject Links	*Career links & BV
GCSE Course completed: Bespoke revision timetable	N/A	N/A
TERM 6 TOPIC/s	*Key Skills/Subject Links	*Career links & BV
GCSE Course completed: Bespoke revision timetable	N/A	N/A