

BIOLOGY	Year 6 - End of KS2	Year 7	Year 8	Year 9	Year 10	Year 11	SCHOOL LEAVERS 16	Year 12	Year 13	SCHOOL LEAVERS 18
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MICROBIOLOGY	Microorganisms	Cells tissues, organs & systems	Unicellular organisms		Key concepts in biology (Yr 9 Summer term)	
					Cells and control	

GENETICS	Evolution and inheritance	Sexual reproduction in animals		Genetics & evolution	Genetics	
					Natural selection and genetic modification	

PHYSIOLOGY	Animals, including humans	Muscles & bones	Food & Nutrition		Health, disease and the development of medicines	Animal coordination, control and homeostasis
			Breathing & respiration			Exchange and transport in animals

PLANTS	Plants		Plants & their reproduction	Plant growth		Plant structures and their functions
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ECOLOGY	Living things and their habitats	Ecosystems				Ecosystems and material cycles
	Seasonal changes					

SKILLS	Working scientifically	Working scientifically	Working scientifically	Working scientifically	Core Practicals	Core Practicals
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Students can progress from this qualification to:

- GCEs, e.g. Biology, Psychology
- Level 3 vocational qualifications in science, for example BTEC Level 3 in Applied Science
- employment, for example in a science-based industry where an apprenticeship may be available.

The content and skills for these qualifications are set by the DfE to be suitable to allow these progression routes.

Biological molecules	Microbiology and pathogens
Cells, viruses, reproduction	

	Origins of genetic variation
	Modern genetics

	Control systems
Exchange and transport	Energy for biological processes

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Classification, biodiversity	Ecosystems

Core Practical Assessments	Core Practical Assessments
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As well as a deep subject knowledge, students also develop a wealth of transferrable skills; cognitive skills, non-routine problem solving, expert thinking, metacognition, creativity, decision making, reasoning, critical thinking, ICT literacy, interpersonal skills, communication, relationship-building skills, collaborative problem solving, adaptability, self-management. When students finish this course, they are well equipped for further education, e.g. Environmental Science, Biomed or for the workplace.