

Biology Combined Science Route

Big ideas	Year 7	Year 8	Year 9	Year 10	Year 11
Cells and cellular processes	B7.1 Cell structure (8 hours) (7Aa- Ks2), 7Ad, , 8Da	B8.2 Biological reactions (10 hours) 8Ca, 8Ce, 8Da 8Db, 8Dc, 8Dd, 9Ba, 9Bb	B9.2 Eukaryotic and Prokaryotic cells (18 hours) 9Ac, GCSE topics 1 (1.1-1.6, 1.15-1.17) and leading up to 3 (Paper 1 and 2)	B10.3 Plants and Photosynthesis (8 hours) GCSE topic 6 (6.1-6.3,6.5,6.7-6.13) (H only 6.4, 6.6) (paper 2)	B11.1a Cell division and growth (8 hours) GCSE topic 2 (2.1-2.9) (paper 1)
Biological systems for life	B7.2 Reproduction (8 hours) 7Ba, 7Bb, 7Bc, 7Bd, 7Be,	B8.1 Organ systems (14 hours) 7Ce 8Ac, 8Cb, 8Cc, 8Cd 8Ce, 8Da, 8Db, 8Dc	B9.3 Digestion and Enzymes (14 hours) 8Ad GCSE topics 1 (1.7-1.12) (Paper 1 and 2)	B10.2 Hormones and Homeostasis (8 hours) GCSE topic 7 (7.1,7.4,7.6,7.7,7.9,7.13,7.15-7.17) (H only 7.2, 7.3,7.5,7.8,7.14) (paper 2)	B11.1b The nervous system (4 hours) GCSE topic 2 (2.13,2.14) (paper 1)
	B7.3 Movement (6 hours) 7Ab, 7Ac, 7Ad, 7Ae			B10.1 Gas exchange, circulation, and respiration (10 hours) GCSE topic 8 (8.1-8.3,8.6-8.12) (paper 2)	B11.4a. Disease and defence (8 hours) GCSE topic 5 (5.1 – 5.6 & 5.8, 5.12-5.14,5.16,5.20) (paper 1)
Organisms and their interactions with the environment	B7.4 Ecosystems (8 hours) 7Dd, 7Dc, 7De, 8Ba, 9Be, 9Bd	B8.3 The producers (8 hours) 8Ba, 9Ba, 9Bb, 9Bc, 8Bb, 8Bc, 8Bd, 8Be 8Ba, 9Bd, 9Be	B9.1 Evolution (8 hours) 7Da, 7Db, 7Dc, 9Aa, 9Ab, 9Ad, 9Ae,	B10.4 Ecosystems and human (9 hours) GCSE topic 9 (9.1-9.6,9.9,9.10,9.12-9.15) (paper 2)	B11.3 Evolution and Variation (8 hours) GCSE topic 4 (4.2-4.5,4.7,4.8,4.10,4.14) (H only 4.11) (paper 1)
					B11.4b Non communicable diseases (4 hours) GCSE topic 5 (5.23-5.25) (paper 1)

Biology Separate Science Route

Big ideas	Year 7	Year 8	Year 9	Year 10	Year 11
Cells and cellular processes	B7.1 Cell structure (8 hours) (7Aa- Ks2), 7Ad, , 8Da	B8.2 Biological reactions (10 hours) 8Ca, 8Ce, 8Da 8Db, 8Dc, 8Dd, 9Ba, 9Bb	B9.2 Eukaryotic and Prokaryotic cells (18 hours) 9Ac, GCSE topics 1 (1.1-1.6, 1.15-1.17) and leading up to 3 (Paper 1 and 2)	B10.3 Plants and Photosynthesis (8 hours) GCSE topic 6 (6.1-6.3,6.5,6.7-6.15) (H only 6.4, 6.6,6.16) (paper 2)	B11.1a Cells and control (8 hours) GCSE topic 2 (2.1-2.10) (H only 2.11,2.12) (paper 1)
Biological systems for life	B7.2 Reproduction (8 hours) 7Ba, 7Bb, 7Bc, 7Bd, 7Be,	B8.1 Organ systems (14 hours) 7Ce 8Ac, 8Cb, 8Cc, 8Cd 8Ce, 8Da, 8Db, 8Dc	B9.3 Digestion and Enzymes (14 hours) 8Ad GCSE topics 1 (1.7-1.12) (Paper 1 and 2)	B10.2 Hormones and Homeostasis (8 hours) GCSE topic 7 (7.1,7.4,7.6,7.7,7.9-7.13,7.15-7.19,7.21-7.22) (H only 7.2, 7.3,7.5,7.8,7.14,7.20) (paper 2)	B11.1b The nervous system and eye (4 hours) GCSE topic 2 (2.13-2.17) (paper 1)
	B7.3 Movement (6 hours) 7Ab, 7Ac, 7Ad, 7Ae			B10.1 Gas exchange, circulation, and respiration (10 hours) GCSE topic 8 (8.1-8.12) (paper 2)	B11.4a. Disease and defence (8 hours) GCSE topic 5 (5.1 – 5.10, 5.12-5.20) (H only 5.11,5.21,5.22) (paper 1)
Organisms and their interactions with the environment	B7.4 Ecosystems (8 hours) 7Dd, 7Dc, 7De, 8Ba, 9Be, 9Bd	B8.3 The producers (8 hours) 8Ba, 9Ba, 9Bb, 9Bc, 8Bb, 8Bc, 8Bd, 8Be, 8Ba, 9Bd, 9Be	B9.1 Evolution (8 hours) 7Da, 7Db, 7Dc, 9Aa, 9Ab, 9Ad, 9Ae,	B10.4 Ecosystems and human (9 hours) GCSE topic 9 (9.1-9.15, 9.17-19) (H only 9.16) (paper 2)	B11.3 Evolution and Variation (8 hours) GCSE topic 4 (4.1-4.10,4.12-4.14) (H only 4.11) (paper 1)
					B11.4b Non communicable diseases (4 hours) GCSE topic 5 (5.23-5.25) (paper 1)

Specification Links

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