BIOLOGY - Years 9, 10 and 11

GCSE CURRICULUM ROADMAP

BEDE'S AMBITIOUS ACADEMIC FACULTIES

KEY

- Topic + end-of-topic test
- Required practical (RP)
- Exam or milestone
- What you will learn
- ★ Separate (Triple) only
- 11 revision phase

Exam technique & past papers Timed papers, 6-mark answers, maths skills

GCSE EXAMS Biology Papers 1 & 2, from mid-May

Post 16+

WHERE BIOLOGY CAN TAKE YOU

A Level Biology
Medicine & dentistry
Veterinary science
Nursing & physiotherapy
Biomedical research
Sports science
Conservation & ecology

SUMMER TERM → NEXT STEPS

MOCK 2 Paper 2 (late January)

PATHWAY REVIEW Separate or Combined Science

MOCK 1 Paper 1

Use every mock to find your gaps, then close them in the reteach lessons.

Mock 2 feedback + targeted reteach

Paper 2 reteach Topics 5–7

Mock 1 feedback + targeted reteach

Paper 1 reteach Topics 1–4

SPRING TERM → AUTUMN TERM

Interleaved reteach Papers 1 & 2 mixed, from mock targets

RP REVIEW All 10 required practicals

FINAL EXAM ENTRIES Confirmed by 21 February

Y11

TOPIC 7: Ecology

Adaptations & interdependence Carbon & water cycles Biodiversity & human impact Trophic levels & food production ★ *Link: Chemistry: The atmosphere*

RP 9 Field investigations
RP 10 Decay ★

Y10 MOCK EXAM Paper 2: Topics 5–7, then 2 feedback lessons

SUMMER TERM → SPRING TERM

TOPIC 6: Inheritance, variation & evolution

DNA, meiosis & inheritance DNA structure & cloning ★ Variation & evolution Speciation & evolutionary theory ★ Genetic engineering & classification

TOPIC 5: Homeostasis & response

Nervous system & reflexes Brain & eye ★ Hormones: glucose & reproduction Body temperature & kidneys ★ Plant hormones ★

RP 7 Reaction time RP 8 Plant responses ★

Every topic ends with a test. Keep your feedback: it becomes your Year 11 revision map.

AUTUMN TERM

Y10

GCSE Biology starts here! Biology, Chemistry and Physics take turns, so Biology comes back every few weeks.

TOPIC 1: Cell biology

Cell structure & microscopy Cell division & stem cells Diffusion, osmosis & active transport Culturing microorganisms ★

RP 1 Microscopy
RP 2 Microbiology ★
RP 3 Osmosis

TOPIC 4: Bioenergetics

Photosynthesis Aerobic & anaerobic respiration Metabolism

Link: Chemistry: Energy changes · Physics: Energy

RP 6 Photosynthesis

AUTUMN TERM → SPRING TERM → SUMMER TERM

Y9

TOPIC 2: Organisation

Digestion & enzymes Heart, blood & lungs Health & disease, incl. cancer Plant tissues & transport

RP 4 Food tests
RP 5 Enzymes

TOPIC 3: Infection & response

Pathogens & disease
Defences, vaccines & drugs
Monoclonal antibodies ★
Plant disease ★

Y9 MOCK EXAM Paper 1: Topics 1–4, with revision & feedback lessons

EXAM BOARD: AQA