

# KS4 Biology

## Big picture

There are six papers: two biology, two chemistry and two physics. Each of the papers will assess knowledge and understanding from distinct topic areas.

### Biology Paper 1

Area of specification	Subtopics	Required Practical
Cell Biology	Cell structure Cell division Transport in cells	Microscopy Osmosis
Organisation	Principles of organisation Animal tissue, organs and organ systems Plant tissue, organs and systems	Enzymes Food tests
Infection and Response	Communicable diseases	None
Bioenergetics	Photosynthesis Respiration	Photosynthesis

### Biology Paper 2

Area of specification	Subtopics	Required Practical
Homeostasis and response	Homeostasis The human nervous system Hormonal coordination in humans	Reaction times
Inheritance, variation and evolution	Reproduction Variation and evolution The development of understanding genetics and evolution Classification of living organisms	
Ecology	Adaptations, interdependence and competition Organisation of an ecosystem Biodiversity and the effect of human interaction on ecosystems	Field investigations

#### How its assessed:

- Written exam: 1hr 15minutes
- Foundation and Higher tiers
- 70 marks
- 16.7% of GCSE

A mixed of multiple choice, structure, closed short answer and open response.