

# BIOLOGY KS3 CURRICULUM

## ROADMAP

1

### Cells and Respiration

Students will explore the structure and function of cells and learn how organisms release energy through respiration to support life processes.

2

### Human and Plant Reproduction

Students will investigate the reproductive systems in humans and plants, understanding the role of reproduction in the life cycle of organisms.

3

### Photosynthesis and Interdependence

Through studying photosynthesis, students will understand how plants produce food and how living things rely on each other and their environment for survival.

4

### Movement and Breathing

Students will explore how muscles and bones work together to enable movement, and how the respiratory system supports breathing and gas exchange.

5

### Inheritance and Variation

Students will examine how traits are inherited from parents, why individuals vary, and the role of DNA in determining characteristics.

6

### Digestion and Evolution

Students will study the digestive system and how organisms break down food for energy, alongside exploring how species change over time through natural selection.

7

### GCSE Preparation

Students will consolidate their understanding of key biology concepts, developing scientific skills and exam techniques in preparation for GCSE-level study.

## Working Scientifically

Students will develop essential scientific enquiry skills, including planning investigations, collecting and analysing data, and drawing evidence-based conclusions, with a focus on accuracy, reliability, and fair testing.