



KNOWLEDGE

SKILLS

- Make links between biological process and the impact on the environment Predict how biological systems will respond to external and internal

- changes
 Apply mathematical skills
 to biological contexts
 The use of specific
 terminology and keywords
 to increase impact of
 written responses

Year 9

- organisation in relation to
- the whole organism

 Use microscopes and
 prepare sample slides

 Use correct scientific
- Link biological theory to applications in wider society

Year 8

- Represent biological reactions with word
- Evaluate the impact of lifestyle choices and diet on
- human health
 The application of simple mathematical skills to the biological context
- Link chemical tests with biological knowledge to test food samples

Year 7

- Focus on the use of the correct scientific terminology
- Use microscopes to observe cells and identify organelles
- Explore interdependence and begin to see the impact of specific changes
- Using a simple model to explain a complex idea

The future

- Study Biology at 6th form or colleges
- Biology is a key subject for lots of STEM careers, particularly in healthcare, medicine and jobs involving plants or animals

Understand how homeostatic mechanisms maintain optimum conditions in the human body.

Explore the structure and function of the nervous system and how it can bring about fast responses

The study of ecosystems and biodiversity, including the impact of human activities.

Ecology

Explore the mechanics of genetic inheritance and how this links to characteristics and disorders

Identify and evaluate how of understanding of evolution has changed over time

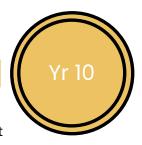
Look at the process of

the factors that limit it.

photosynthesis and

Understand the process of aerobic and anaerobic respiration

Understand the bodies first line of defence and how the body defends against infection. Explore the role of medicine in prevention and treatment of disease



Infection & Response

Explore different organs and organ systems in both plants and animals. Look at the function of enzymes

Study the structure of cells, how differences enables them to perform specific functions and look at transport into and out of

Cells

Look at how



Organisation

Explore the effects of exercise on the human body

Exercise

lifestyle factors affect health 1

Health

What constitutes a healthy diet and the process of digestion

Look at variation and model the inheritance of a specific trait

Inheritance

Food and Digestion

Study ecosystems, species adaptations, food webs and extinction

Look at reproduction in both plants and

animals

Reproduction

Study different organelles within a typical plant and animal cell, focus on specialised cells and use of microscopes

Cells

Lab safety Hazard symbols



Ecology & Biodiversity