

# Science –Biology Road Map

Ecology  
Evolution  
Organisms  
Health

\* Classification of animals,  
\* Body parts and functions  
\* Types of food

\* Different parts of flowers  
\* Basic grouping of plants

\* Introduction to reproduction  
\* Staying healthy

Year 1

Year 2

\* How plants survive  
\* Seeds and bulbs

\* The digestive system  
\* Plants as food

\* Identification of animals and plants  
\* More advanced grouping of animals and plants

\* The food cycle  
\* How living things survive

Year 3

\* Functions of a flowering plant  
\* Growth of plants

\* Skeletons and muscles

Year 4

Year 5

\* Life cycles for different species  
\* Different types of reproduction

\* Adaptation to environment  
\* How living things change over time  
\* Introduction to evolution

\* Blood, oxygen and the lungs

Year 6

\* Human development between birth and death  
\* Unhealthy life choices

Cells:

\* Plant, animal and unicellular cells  
\* Movement of substances in and out of cells  
\* Microscope skills

\* The impact of environment change and humans on habitats

Year 7

\* Identifying a wider range of living things including micro-organisms

Structure and Function of Body Systems:  
\* Respiratory and skeletal organ systems

Ecosystems Processes:  
\* Photosynthesis and respiration  
\* Interdependence

Adaptation and Inheritance:  
\* Evolution in greater depth.  
\* Variation

Year 8

Reproduction:  
\* Developing further understanding of the human reproductive system

Health and Lifestyle:  
\* Developing further understanding of how to maintain a healthy lifestyle

Year 9

Cell Biology:  
\* Further understanding of cell structure  
\* Diffusion, osmosis and active transport

Bioenergetics:  
\* Extended understanding of photosynthesis and respiration

Year 10

Inheritance, Variation and Evolution:  
\* Extended understanding of reproduction  
\* Evolution at a greater depth

Infection and Response:  
\* Communicable and non-communicable disease.  
\* Lines of defence

Organisation:  
\* Extended understanding of health and disease  
\* Circulation and digestion

Year 11

Homeostasis and Response:  
\* Structure and function of nervous system  
\* The endocrine system, including further understanding of insulin

Ecology:  
\* Levels of organisation in an ecosystem  
\* Greater understanding of feeding relationships.

