

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

* Food chains
* How living things survive
* Habitats

Year 3

* Functions of a flowering plant
* Growth of plants

* Skeletons and muscles
* Food groups

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

* Human development between birth and death
* Unhealthy life choices

Year 6

* The impact of environment change and humans on habitats

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

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

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

Year 11

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

