

OUR BIOLOGY JOURNEY

EXPLORE. INVESTIGATE. UNDERSTAND. DISCOVER.

SKILLS DEVELOPED

-  Scientific Enquiry
-  Observation
-  Investigation
-  Data Analysis
-  Evaluation
-  Problem Solving
-  Practical Skills

KEY CONCEPTS

-  Cells
-  Organisms
-  Genes
-  Ecosystems
-  Evolution
-  Health
-  Disease

YEAR 9

CELL BIOLOGY, DISEASE & RESPONSE



CELL BIOLOGY

- Animal & Plant Cells
- Microscopy
- Chromosomes
- Mitosis
- Stem Cells
- Diffusion, Osmosis
- Active Transport



INFECTION & RESPONSE

- Bacterial Diseases
- Viral Diseases
- Fungal Diseases
- Protists
- Disease Prevention
- Fighting Disease



SCIENTIFIC INVESTIGATION

- Designing Investigations
- Practical Skills
- Data Analysis
- Evaluation

Big idea: Organisms

YEAR 8

UNDERSTANDING LIVING SYSTEMS



DIGESTION

- Nutrients
- Food Tests
- Digestive System
- Enzymes



BREATHING & RESPIRATION

- Gas Exchange
- Aerobic Respiration
- Effects of Exercise
- Lifestyle Factors



PHOTOSYNTHESIS & EVOLUTION

- Photosynthesis
- Leaf Structure
- Adaptation
- Evolution



INHERITANCE

- DNA
- Genes
- Characteristics
- Genetic Modification



SCIENTIFIC ENQUIRY

- Planning Investigations
- Variables
- Data Collection
- Graphs
- Reliability & Reproducibility

Big ideas: Organisms, Genes, Ecosystems

WHERE BIOLOGY CAN TAKE YOU

-  Doctor
-  Nurse
-  Pharmacist
-  Microbiologist
-  Geneticist
-  Ecologist
-  Biomedical Scientist
-  Conservation Officer
-  Research Scientist

...and many more!

YEAR 7

FOUNDATIONS OF LIFE



CELLS

- Organisation of Living Things
- Plant & Animal Cells
- Specialised Cells
- Microscopy
- Movement of Substances



HUMAN & PLANT REPRODUCTION

- Human Reproduction
- Plant Reproduction
- Pollination
- Germination
- Seed Dispersal



INTERDEPENDENCE

- Food Chains
- Food Webs
- Competition
- Ecosystems



MOVEMENT

- Skeleton
- Joints
- Muscles
- Levels of Organisation



SCIENTIFIC ENQUIRY

- Planning Investigations
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Big ideas: Organisms, Genes, Ecosystems



EXPLORE
Be curious



INVESTIGATE
Ask questions



UNDERSTAND
Make connections



DISCOVER
Make a difference