



Department: Science: Biology Organisms, Genes and Ecosystems
Year Group: Seven

Working toward	Working at	Working above
- Identifies basic parts of plants and animals. - Recognizes that living things need food, water, and air. - Describes simple life processes such as growth and movement. - Understands that characteristics can be inherited. - Gives examples of traits passed from parents to offspring. - Recognizes that offspring are not identical to parents. - Identifies living and non-living components of a habitat. - Understands that animals eat plants or other animals. - Describes simple food chains.	- Describes the structure and function of major organs in animals and plants. - Explains how organisms are adapted to their environments. - Understands the life cycle of common organisms. - Explains how genes influence traits and variation. - Understands the role of DNA in inheritance. - Describes simple genetic diagrams (e.g., dominant/recessive traits). - Explains how energy flows through ecosystems via food chains and webs. - Understands the roles of producers, consumers, and decomposers. - Describes how changes in ecosystems affect populations.	- Analyses how structural adaptations support survival in specific environments. - Compares and contrasts life cycles across different species. - Evaluates the impact of environmental changes on organism health and behaviour. - Interprets genetic crosses and predicts outcomes using Punnett squares. - Explores ethical issues around genetic modification and cloning. - Explains how mutations can lead to variation and evolution. - Evaluates the impact of human activity on ecosystems. - Analyses complex food webs and nutrient cycles. - Explores biodiversity and conservation strategies.