



Department: Science: Biology – Competition, Adaptation, Evolution, Organisation and Photosynthesis/Respiration
Year Group: Eight

Working toward	Working at	Working above
- Recognizes that animals and plants live in different habitats. - Identifies basic adaptations in animals and plants. - Understands that living things can change over time. - Identifies major organs in the human body. - Recognizes that organs work together in systems. - Understands the basic function of the digestive system. - Identifies that plants need light, water, and carbon dioxide. - Recognizes that plants make their own food. - Understands that breathing is part of respiration.	- Explains how organisms compete for resources in ecosystems. - Describes adaptations that improve survival and reproduction. - Understands natural selection and its role in evolution. - Describes the structure and function of organ systems (e.g. digestive, respiratory). - Explains how substances are tested for foods they contain. - Understands the role of enzymes in digestion. - Describes the process of photosynthesis and its word equation. - Explains aerobic respiration and its role in energy release. - Understands the importance of gas exchange in plants and animals.	- Analyses how environmental pressures drive evolutionary change. - Evaluates evidence for evolution from fossil records and genetics. - Explains reasons for extinction of living things. - Analyses how organ systems are adapted to their role - Explains the effects of lifestyle on health and organ function. - Evaluates data for optimum conditions for enzyme function. - Compares aerobic and anaerobic respiration with equations. - Explains how photosynthesis and respiration are linked in ecosystems. - Analyses factors affecting the rate of photosynthesis and respiration.