



Key Skills
I understand that some scientific questions don't have answers
I can plan in detail using a range of methods to solve problems
I can explain which equipment, or resource is the best to use
I can repeat an observations and measurements at a suitable time and frequency
I can use scientific diagrams, classification keys, tables, graphs and models to record data.
I can select and use a range of multimedia to present my evidence
I can draw conclusions using evidence from more than one source
I can explain anomalies in my results and in repeated evidence
I can evaluate my work and methods and make practical suggestions to improve them
I can use evidence to support or refute an idea.
Living Things and their Habitats
I can classify vertebrate animals into recognised groups
I can classify invertebrate animals into recognised groups
I can classify plants into recognised groups
I can explain how and why I have used classification
I can explain why an organism is in one group and not another
Animals including Humans
I can explain the human circulatory system
I can describe main functions of the heart, blood and blood vessels
I can explain how diet, exercise, drugs and lifestyle will affect my body
I can explain how nutrients are transported through my body
I can explain how water is transported through my body
Evolution and Inheritance
I know that animals and plants evolve over time
I know that animals and plants adapt to suit their environment
I know that adaptation may lead to evolution
I know that fossils provide information about ancient animals
I know that characteristics are passed from parent to offspring
I know how variation may make an animal more or less successful
Light
I know that light appears to travel in straight lines
I can explain how reflected light is how we see
I can explain how light travels from a source to an object and is reflected
I can explain how we see through light from a light source, or reflected light
I can explain how a shadow is formed and its shape
I can understand and discuss reflection
Electricity
I can explain how different cells affect a circuit
I can explain the function of components in a circuit
I can explain variations in the performance of components in a circuit
I can systematically construct and investigate a circuit
I can represent a circuit using recognised symbols
I know how to work safely with electricity