

Working Scientifically	Emerging	Expected	Exceeding
Can ask relevant questions and using different types of scientific enquiries to answer them.			
Can set up simple practical enquiries, comparative and fair tests			
Can make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.			
Can gather, record, classify and present data in a variety of ways to help in answering questions.			
Can record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.			
Can report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.			
Can use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.			
Can identify differences, similarities or changes related to simple scientific ideas and processes.			
Can use straightforward scientific evidence to answer questions or to support their findings.			
Plants			
Can identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.			
Can explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant.			
Can investigate the way in which water is transported within plants.			
Can explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.			
Animals including Humans			
Can identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat.			
Can identify that humans and some other animals have skeletons and muscles for support, protection and movement.			
Rocks			
Can compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.			

Can describe in simple terms how fossils are formed when things that have lived are trapped within rock.			
Recognises that soils are made from rocks and organic matter.			
Light			
Recognises that they need light in order to see things and that dark is the absence of light.			
Understands that light is reflected from surfaces.			
Recognises that light from the sun can be dangerous and that there are ways to protect their eyes.			
Recognises that shadows are formed when the light from a light source is blocked by a solid object.			
Can find patterns in the way that the size of shadows change.			
Forces and Magnets			
Can compare how things move on different surfaces.			
Understands that some forces need contact between two objects, but magnetic forces can act at a distance.			
Can observe how magnets attract or repel each other and attract some materials and not others.			
Can compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.			
Can describe magnets as having two poles.			
Can predict whether two magnets will attract or repel each other, depending on which poles are facing.			