Science Key Skills
Year 4

Working scientifically	To ask testable questions, using different types of scientific enquiry to answer them
	To make systematic observations, taking accurate measurements using a range of equipment (including digital)
	To set up simple comparative and fair test
	To produce written, oral or presentations of findings
	To record findings using simple scientific language, drawings, labeled diagrams, bar charts and tables
	To use results to draw simple conclusions suggest improvements and raise further questions
Biology - Animals, including humans - nutrition	To describe the simple functions of the basic parts if the digestive system in humans
	To identify the different types of teeth in humans and their simple functions
	To suggest reasons for the differences in the teeth of carnivores and herbivores
	To investigate what can damage teeth
	To construct and variety of food chains, identifying producers, predators and prey.
Chemistry - States of matter	To compare and group materials together according to whether they are solids, liquids or gases
	To give simple descriptions of the different states of matter
	To observe that some materials change state when they are heated or cooled but some do not
	To know that when an object changes state, no material is lost or chemically altered it is just in a different form
	To investigate and record the temperatures at which some materials change state
	To identify the part played by evaporation and condensation in the water cycle
	To understand the relationship between temperature and evaporation
Biology - Living things - classification	To group animals using the categories: amphibian, reptile, mammal, fish and bird
	To use classification keys to help group, identify and name a variety of living things
	To recognise that environments can change and that this can sometimes pose dangers to living things
Physics - Sound	To identify how sounds are made, associating some of them to something vibrating
	To recognise that vibrations from sounds travel through a medium to the ear
	To find patterns between the pitch of a sound and features of the object that produced it
	To find patterns between the volume of a sound and the strength of the vibrations that produced it
	To recognise that sounds get fainter as the distance from the source increases
	To systematically create sounds varying pitch and volume
Physics - Electricity	To describe the use of electricity to power common appliances
	To understand that a circuit must be properly constructed in order for components to function
	To draw my circuits using simple pictorial representation
	To identify and name the parts of a simple series circuit
	To identify whether a lamp will light in a series circuit
	To recognise some common conductors and insulators
	To associate metal with being a good conductor