Science Year 4

Working Scientifically	Asking relevant questions and using different types of scientific enquiries to answer them	
	Setting up simple practical enquiries, comparative and fair tests	
	Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers	
	Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions	
	Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables	
	Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions	
	Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions	
	Identifying differences, similarities or changes related to simple scientific ideas and processes	
	Using straightforward scientific evidence to answer questions or to support their findings.	
Living Things and their Habitats	Recognise that environments can change and that this can sometimes pose dangers to living things	
	Identify the different types of teeth in humans and their simple functions	
	Construct and interpret a variety of food chains, identifying producers, predators and prey	
Animals, including humans	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	
	Identify that humans and some other animals have skeletons and muscles for support, protection and movement	
	Construct and interpret a variety of food chains, identifying producers, predators and prey	
States of Matter	Compare and group materials together, according to whether they are solids, liquids or gases	
	Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)	
	Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature	
Sound	Identify how sounds are made, associating some of them with something vibrating	

	Recognise that vibrations from sounds travel through a medium to the ear	
	Find patterns between the pitch of a sound and features of the object that produced it	
	Find patterns between the volume of a sound and the strength of the vibrations that produced it	
	Recognise that sounds get fainter as the distance from the sound source increases	
Electricity	Identify common appliances that run on electricity	
	Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers	
	Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery	
	Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit	
	Recognise some common conductors and insulators, and associate metals with being good conductors	