

Science Skills		Year 4							
Areas	Year:								
	Staff:								
To work scientifically	Ask relevant questions.								
	Set up simple practical enquiries and comparative and fair tests.								
	Make accurate measurements using standard units, using a range of equipment, e.g. thermometers and data loggers								
	Gather, record, classify and present data in a variety of ways to help in answering questions.								
	Record findings using simple scientific language, drawings, labelled diagrams, bar charts and tables.								
	Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.								
	Use results to draw simple conclusions and suggest improvements, new questions and predictions for setting up further tests.								
	Identify differences, similarities or changes related to simple, scientific ideas and processes.								
	Use straightforward, scientific evidence to answer questions or to support their findings.								
BIOLOGY									
To Understand Animals and Humans	Describe the simple functions of the basic parts of the digestive system in humans.								
	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.								
To investigate living things	Identify and name a variety of living things (plants and animals) in the local and wider environment, using classification keys to assign them to groups.								
	Give reasons for classifying plants and animals based on specific characteristics.								
	Recognise that environments are constantly changing and that this can sometimes pose dangers to specific habitats.								
To understand evolution and inheritance	Identify how plants and animals, including humans, resemble their parents in many features.								
	Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.								
	Identify how animals and plants are suited to and adapt to their environment in different ways.								
CHEMISTRY									
To investigate materials	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 the temperature at which this happens in degrees Celsius (°C), building on their teaching in mathematics.								
	Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.								
PHYSICS									
To investigate sound and hearing	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 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's source increases.								
To understand electrical circuits	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.								