

Year 4 Science progression document



Working Scientifically skills which will be taught throughout the year.

Key Stage 2 (Years 3 and 4)

- WS1: Asking relevant questions and using different types of scientific enquiries to answer them
- WS2: Setting up simple practical enquiries, comparative and fair tests
- WS3: Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- WS4: Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
- WS5: Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- WS6: Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
- WS7: Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
- WS8: Identifying differences, similarities or changes related to simple scientific ideas and processes

Working Scientifically Vocabulary:

Question, Prediction, Method, Enquiry, Comparative, Fair Test, Observation, Pattern Seeking, Data, Record, Identify, Classify, Variables, Measurements, Accuracy, Anomaly

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 4	<u>Electricity</u>	Electricity	Animals including	Living things and	States of Matter	Sound
	E1: I can identify	E4: I can recognise that	humans	their habitats	M1: I can compare	S1: I can identify how
	common appliances	a switch opens and	A1: I can describe	L1: I can recognise	and group	sounds are made,
	that run on electricity.	closes a circuit and associate this with	the simple	that living things	materials together,	associating some of
	E2: I can construct a	whether or not a lamp	functions of the	can be grouped in a	according to	them with something
	simple series electrical	lights in a simple series	basic parts of the	variety of ways	whether they are	vibrating.
	circuit, identifying and naming its basic parts,	circuit.	digestive system in	00i	solids, liquids or	S2: I can recognise
	including cells, wires,	E5: I can recognise	humans.	L1: I can explore	gases.	that vibrations from sounds travel through a medium to the ear.
	bulbs, switches and	some common		and use		
	buzzers.	conductors and	A2:I can identify	classification keys	M2: I can observe	
	//	insulators, and	the different types	to help group,	that some	
	E3: I can identify whether or not a lamp	associate metals with being good conductors.	of teeth in humans	identify and name	materials change	

will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery.	Y F	and their simple functions A3: I can construct and interpret a variety of food chains, identifying producers, predators and prey.	a variety of living things in their local and wider environments. L3: I can recognise that environments can change and that this can sometimes pose dangers to living things.	state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C). M3: I can identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.	S3: I can find patterns between the pitch of a sound and features of the object that produced it. S4: I can find patterns between the volume of a sound and the strength of the vibrations that produced it. S5: I can recognise that sounds get fainter as the distance from the sound source increases.
		<mark>bject spec</mark> ific vocabula			
Cells (batteries) Wires Switches Circuit Series Parallel Buzzers Bulbs	Appliances Cells (batteries) Wires Switches Circuit Series Parallel Buzzers Bulbs Mains electricity Insulators Conductors	Mouth Tongue Teeth Canine Incisor Molar Oesophagus Stomach Small intestine Large intestine Digestive system Function Herbivore Carnivore Omnivore Food chain Producers	Fish, reptiles, mammals, birds, amphibians, insects Environment Habitat Variety Classification Vertebrate Invertebrate Exo skeleton Human impact Positive Negative	Solid Liquid Gas Temperature Heating Freezing point Boiling point Particles Evaporation Condensation Thermometer Thermal insulation Degrees Celsius	Volume Vibration Sound wave Loud Soft Pitch Tone Speaker Amplitude Frequency Travel Fainter Distance

Predators Prey

