Lower KS2 programme of Study

Year 4 Programme of study

Working Scientifically

During years 3 and 4, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:

- 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
- $\ \square$ gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
- Trecording findings using simple scientific language, drawings, labelled diagramskeys, 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.

Year 4 Programmes of Study (statutory Requirements)

Electricity

Pupils should be taught to:

- 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
- Trecognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit
- I recognise some common conductors and insulators, and associate metals with being good conductors.

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Animals,	Pupils should be taught to:
including	describe the simple functions of the basiquarts of the
humans	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.
States of	Pupils should be taught to:
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.
	with remperature.
Living things	Pupils should be taught to:
and their	recognise that living things can be grouped in avariety of
habitats	ways
nasirars	explore and use classification keys to help group, identify
	and name a variety of living things in their local and wider
	environment
	recognise that environments can change and that this can
	sometimes pose dangers to living things
	sometimes pose dangers to living things
Sound	Pupils should be taught to:
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
	I 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.

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