



OUR GOLDEN THREADS



PHYSICS

Understanding how the universe works through energy, forces, motion, light and sound.



BIOLOGY

Exploring living things, their structure, processes, evolution and how they interact with their environment.



CHEMISTRY

Investigating the properties of materials, how they change and the reactions that shape our world.



EARTH SCIENCE

Understanding Earth and beyond, including the planet, atmosphere, space and the systems that sustain life.

SCIENCE NATIONAL CURRICULUM STATEMENTS YEAR 4

Pupils should be taught to...

ANIMALS INCLUDING HUMANS (DIGESTION)



ANIMALS INCLUDING HUMANS (TEETH & FOOD CHAINS)



ELECTRICITY



SOUND



STATES OF MATTER (MATTER IN ACTION)



STATES OF MATTER (CHANGES OF STATE)



LIVING THINGS AND THEIR HABITATS

- recognise that living things can be grouped in a variety of ways
- 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

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ANIMALS, INCLUDING 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

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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

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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

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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

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Our Science curriculum ignites curiosity, builds knowledge and develops a deep understanding of our world. We explore the wonders of living things, materials, energy and the Earth to help every child make sense of the world and their place in it.

