

Year 4	Science <i>(including study of key scientists)</i>	Sound Alexander Graham Bell how sounds are made vibrations travel to the ear patterns between pitch/object patterns between volume/vibrate sounds get fainter w distance	Animals including humans describe human digestive system functions of diff. types of teeth food chains inc producers/predators/prey	Living things and their habitats Joy Adamson, Serian Summer explore/use classification keys group living things in a variety of ways environments can change and pose a threat to living things		Electricity Michael Faraday, Thomas Edison appliances that use electricity construct/name simple circuit lamps light in complete circuit w battery switches open/close a circuit conductors/insulators inc metal	States of matter Marie Curie group solids/liquid/gases change of state cooled/heated water cycle inc. temperature
	Science Practical Investigation	Investigate sources of sound	Investigate function of different teeth in animals including humans	Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment		Construct simple series circuits – troubleshoot.	Observe and record evaporation over a period of time. Investigate irreversible and reversible changes
Year 5	Science <i>(including study of key scientists)</i>	Living things and their habitats Rosalind Franklin Jane Goodall life cycles of mammals, insects, birds, amphibians reproduction process	Animals including humans Andreas Vesalius changes as humans grow old	Earth and Space Galileo Galilei Nicolaus Copernicus, Helen Sharman, Tim Peake movement of planets relative to the sun movement of moon relative to Earth Sun, moon, Earth are spherical bodies day/night and Earth's rotation	Forces Isaac Newton gravity effects of resistance/ friction mechanisms inc levers, pulleys, gears.	Properties and changes of materials Frederick Lindemann compare/group properties of everyday materials some materials dissolve in liquid to form solutions separation through filtering, sieving, evaporation test and give reasons for the uses of everyday materials that dissolving, mixing and changes of state are reversible that some changes result in the formation of new materials	
	Science Practical Investigation	Investigate different life cycles Investigate taking cuttings of different plants	Explore gestation periods and patterns between animals. Life cycles	Investigating the use of satellite dishes and tracking data	Investigating air resistance	Exploring how to safely filter and 'clean' dirty water. Explore water collection	
Year 6	Science <i>(including study of key scientists)</i>	Light Ernesta Jonkute, Ibn al-Haytham light travels in straight lines objects give out or reflect light light travels to our eyes objects cast shadows of the same shape	Electricity Peter Rawlinson, Thomas Edison brightness/volume is associated with cells/voltage compare variations in the function of bulbs, buzzers, switches using symbols to draw circuits	Evolution and Inheritance Charles Darwin, Mary Anning Alfred Wallace living things change over time and fossils provide clues adults produce offspring that vary adaptation to environments may lead to evolution	Living things and their habitats Carl Linnaeus, Sir David Attenborough classify according to common observable characteristics classify plants/animals on specific characteristics, giving reasons	Animals, including humans Wilhelm Roentgen name parts of circulatory system describe function of heart, blood vessels and blood recognise the impact of diet, exercise, drugs on body function describe how water/nutrients are transported in bodies	
	Science Practical Investigation	Investigate how light travels	Create a circuit board christmas decoration – investigating electricity Create a dimmer switch.	Family tree investigation	Classification in our backyard	Nutrient detectives	Investigate different exercises and the effects on their bodies