

Term	Autumn One	Autumn Two	Spring One	Spring Two	Summer
Торіс	States of Matter	Electricity	Sound	The Digestive System (Animals Including Humans)	Living things in their habitats
Scientific enquiry	Classifying	Pattern seeking	Researching	Comparative/fair testing	Observing over time
Working scientifically skills	To ask scientific questions	To gather/record results To present results To interpret results	To plan an enquiry To make a prediction	To observe closely To measure accurately	To draw conclusions To evaluate an investigation
Building science capital	Science museum? Experiments	Local electricians to visit via zoom?	Musicians Hearing tested with auditory doctor (ENT)	Animals in the local environment	Bug garden (hospital) Find living things in their habitats Pond
Composite knowledge	What is a solid, liquid, gas? What processes occur when changing state?	How does electricity work? How do we construct a working circuit?	How are sounds made? How does the human ear work?	How does the human digestive system work? What are the functions of human teeth?	What impact do humans play on the environment? What are the different groups of living things in my environment? How can changes in the environment impact living
	What is the water cycle and how does it work?	Why does a circuit work?		How does the food chain work?	things?
Component knowledge	compare and group materials together, according to whether they are solids, liquids or gases observe that some	identify common appliances that run on electricity construct a simple series electrical circuit, identifying	identify how sounds are made, associating some of them with something vibrating recognise that vibrations from	describe the simple functions of the basic parts of the digestive system in humans identify the different types of teeth in humans	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
	materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)	and naming its basic parts, including cells, wires, bulbs, switches and buzzers identify whether or not a lamp will light in a simple series	sounds travel through a medium to the ear find patterns between the pitch of a sound and features of the object that produced it	and their simple functions construct and interpret a variety of food chains, identifying producers, predators and prey	recognise that environments can change and that this can sometimes pose dangers to living things identify the characteristics of living things. discuss how to make a positive impact on the environment

	identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature	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	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		
Vocabulary	Solid, Liquid, Gas, Evaporation, Condensation, Particles, Temperature, Freezing, Heating	Cells, Wires, Bulbs, Switches, Buzzers, Battery, Circuit, Series, Conductors, Insulators	Volume, Vibration, Wave, Pitch, Tone, Speaker	Mouth, Tongue, Teeth, Oesophagus, Stomach, Small Intestine, Large Intestine, Herbivore, Carnivore, Canine, Incisor, Molar	Vertebrates, Fish, Amphibians, Reptiles, Birds, Mammals, Invertebrates, Snails, Slugs, Worms, Spiders, Insects, Environment, Habitats
Links to prior knowledge	Year 1-Seasonal Change			Year One- Senses Year Two Year Three	Year Two
Key knowledge for assessment	Compare similarities and difference of various materials. Explain the impact melting and freezing has on states of matter.	Label simple circuits using the correct scientific vocabulary Understand how a simple circuit works and how electricity travels.	Describe how sound can travel through different mediums Identify the parts and explain the function of the human ear. Explain how vibrations work and their impact on pitch and volume.	Identify different parts of the digestive system and how they work together. Identify teeth and their functions.	Name the different groups of living things Understand how the environment changes and how this can be done by and to living things.

Cross- curricular links	Topic- Volcanoes	Fluency- Reading lesson	Music- lessons with Music teacher	Health/Food technology- What is healthy?	Fluency- Reading lesson Non Chronological Reports- Literacy Topic- Climate zones/habitats
Oracy & Outdoor learning	Outdoor Learning- particle experiment	Outdoor Learning- Making a human circuit	Outdoor learning- Experiment about sound travel	Outdoor learning- Digestive system model	Outdoor learning- Bug garden (hospital), Find living things in their habitats, pond dipping
	Oracy- Present a poster	Oracy- breaking news story- electricity experts	Oracy- Discussing what they can hear and sound- close or far	Oracy- TTYP/discussions in lessons	Oracy- TTYP/discussions