The Piggott School: Charvil Primary



'Go and do Likewise' Luke 10:25, -37 The Parable of the Good Samaritan We live with love and compassion, seeking help in times of need

Curriculum Map: Science Year 4

	Living things and their	States of Matter	Electricity	Sound	Animals including humans
	habitats				 digestion and teeth
Content	*recognise that living	*compare and group	*identify common	*identify how sounds are	*describe the simple
Declarative	things can be grouped in a	materials together,	appliances that run on	made, associating some of	functions of the basic parts
Knowledge 'I	variety of ways	according to whether they	electricity	them with something	of the digestive system in
know'	*explore and use	are solids, liquids or gases	*construct a simple series	vibrating	humans
	classification keys to help	*observe that some	electrical circuit, identifying	*recognise that vibrations	*identify the different
	group, identify and name a	materials change state	and naming its basic parts,	from sounds travel through	types of teeth in humans
	variety of living things in	when they are heated or	including cells, wires,	a medium to the ear 🛛 find	and their simple functions
	their local and wider	cooled, and measure or	bulbs, switches and buzzers	patterns between the pitch	*construct and interpret a
	environment	research the temperature	*identify whether or not a	of a sound and features of	variety of food chains,
	<pre>*recognise that</pre>	at which this happens in	lamp will light in a simple	the object that produced it	identifying producers,
	environments can change	degrees Celsius (°C)	series circuit, based on	*find patterns between the	predators and prey
	and that this can	*identify the part played by	whether or not the lamp is	volume of a sound and the	
	sometimes pose dangers to	evaporation and	part of a complete loop	strength of the vibrations	
	living things.	condensation in the water	with a battery	that produced it	
		cycle and associate the rate	<pre>*recognise that a switch</pre>	*recognise that sounds get	
		of evaporation with	opens and closes a circuit	fainter as the distance from	
		temperature.	and associate this with	the sound source	
			whether or not a lamp	increases.	
			lights in a simple series		
			circuit		
			*recognise some common		
			conductors and insulators,		
			and associate metals with		
			being good conductors.		

Skills Procedural	Plan *Ask relevant questions. *Use different types of scientific enquiries to answer their questions *Set up simple and practical enquiries,							
Knowledge 'I know	comparative and fair tests							
how to'	Do *Make systematic and careful observations using a range of equipment, including thermometers and data loggers *Take accurate measurements							
	using standard units, where appropriate							
	Record *Gather, record, classify and present data in a variety of ways to help to answer questions *Record findings using simple scientific language,							
	drawings and labelled diagrams *Record findings using keys, bar charts, and tables							
	Review *Report on findings from enquiries, including oral and written explanations, of results and conclusions *Report on findings from enquiries							
	using displays or presentations *Identify differences, similarities or changes related to simple scientific ideas and processes *Use straightforward							
	scientific evidence to answer questions or to support their findings *Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions							
Vocabulary	Classification keys,	States of matter, solid,	Electricity, appliance,	Sound, sound source,	Digestive system, nutrition,			
	environment, fish,	liquid, gas, air, oxygen,	device, mains, plug,	noise, vibration, travel,	mouth, teeth, canine,			
	amphibians, reptiles, birds,	powder, grainular/grain,	electrical circuit, complete	solid, liquid, gas, pitch,	incisor, molar, pre-molar,			
	mammals, vertebrates,	crystals, change state,	circuit, circuit diagram,	tune, high, low, volume,	saliva, tongue, rip, tear,			
	invertebrates, names of	ice/water/steam, water	circuit symbol,	loud, quiet, fainter, muffle,	chew, grind, cut,			
	them, human impact,	vapour, heating, cooling,	components, cell, battery,	strength of vibrations,	oesophagus (gullet),			
	positive, negative (impact).	temperature, degrees	positive/negative, connect,	insulation, instrument,	stomach, small intestine,			
		Celsius, melt, freeze,	connection, short circuit,	percussion, strings, bass,	large intestine, rectum,			
		solidify, melting point, boil,	wire, crocodile clip, bulb,	woodwind, tuned	anus, carnivore, herbivore,			
		boiling point, evaporation,	bright/dim, switch, buzzer,	instrument	omnivore, producer,			
		condensation, water	motor, faster/slower,		consumer, predator, prey,			
		cycle, precipitation,	conductor, insulator,		food			
		transpiration	metal/non metal		chain			
	Previous vocab plus enquiry types increase, decrease, identify, classify, order, notice patterns, relationships, appearance, present results, data							
:	loggers							
Key Questions	How do all living things	What are the states of	How is electricity made?	How does sound travel?	How do we digest out food			
	survive?	matter? Can an object	How does electricity	How does the ear work?	and what happens to it			
		change state? If an object	travel?	What makes different	once it is digested? Why do			
		changes state, can it		sounds?	different teeth2 What			
		change back again? Are			different iebe de theu de?			
		there only four states of			How do our tooth docay?			
		matter? Why do some			How do our teeth decay?			
		solids behave like liquids						
		and vice versa?						
Assessment	Assessment on Insight every term as well as lesson by lesson observations based on knowledge, skills and key questions outlined above							
1	Assessment on Insight every	term as well as lesson by lesso	on observations based on know	viedge, skills and key questions	s outlined above			

	Option to use White Rose End of Block assessments at teachers discretion						
Cross Curricular	Spiritual – learning about	Spiritual – learning about	Spiritual – learning about	Music – pitch, composing	Spiritual – learning about		
Links/Character	the world around them and	the world around them and	the world around them and	and making music	the world around them and		
Education	reflecting on experiences.	reflecting on experiences.	reflecting on experiences.	Spiritual – learning about	reflecting on experiences.		
	Social – cooperating and	Social – cooperating and	Social – cooperating and	the world around them and	Social – cooperating and		
	working together	working together	working together	reflecting on experiences.	working together		
	Geography – human	Geography – The Water	Life learning – safety	Social – cooperating and	PE – body systems		
	impact on the environment	Cycle	around electricity	working together			
			DT – incorporate a circuit				
			into a 3D model				