

Cledford Primary School – Science Curriculum Yearly Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
day EYFS S Continuous providing Ice exploratory and investigative opportunities	Daily Dashboard: weather, seasons		Living things and their habitats Draw information from a simple map. Seasonal changes Understand the effect of changing seasons on the natural world around them. Specific topic – Spring and new life	Living things and their habitats Recognise some environments that are different from the one in which they live. Specific topic – Travel and transport (link to seasons – wellies and different footwear)	Seasonal changes/materials/Light/forces/sound/ earth and space Describe what they see, feel and hear while outside Explore the natural world around them Specific topics – Plants and growth 'How does your garden grow'	Living things and their habitats Specific topics – Animals and their habitats
Year 1 Everyday EYFS science	Environment: access to different m The Human Body and Senses Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense <u>TAPS</u> Body parts (using observations)	aterials throughout the day (support or a Seasonal changes – ongoing throughout the year Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies <u>TAPS</u> Seasonal change – ongoing (observe over time record data)	Animals Identify and name common animals including fish, amphibians, mammals, birds and reptiles (as well as carnivores, omnivores and herbivores) Compare structure of common animals (including pets) <u>TAPS</u> Animal classification (identify and classify)	Everyday Materials Distinguish between object and the material from which it's made Identify and name a variety of everyday materials and their simple physical properties Compare and group together everyday materials TAPS: Floating and sinking (plan simple tests to compare and group) Reflectiveness (answering questions) Transparency (answering questions) Seasonal changes – ongoing throughout the year Observe changes across the four seasons Observe and describe weather associated with the seasons and how day	Plants – term topic Identify and name a variety of common wild and garden plants Identify and describe the basic structure of flowering plants (seed planting best between late March and late May) <u>TAPS</u> Leaf looking (observing closely) Educational Visit Link: RHS Garden Brigewater	Plants – term topicIdentify and name a variety of common wild and garden plantsIdentify and describe the basic structure of flowering plantsSeasonal changes – ongoing throughout the year Observe changes across the four seasonsObserve and describe weather associated with the seasons and how day length variesTAPS Plant structure (observe closely over time using simple equipment)
Year 2	Animals including humans: diet, exercise and hygiene Describe the importance for humans to exercise, eat the right amount of different types of food and hygiene. <u>TAPS</u> Compare handspans (using observations to answer questions) Plants – ongoing throughout the year Planting bulbs (mini daffodils)/wild flower seeds ready for spring plants topic (before October half term) – planters outside LW's classroom to Y2 classroom	Animals include humans: offspring and lifecycles Notice that all animals, including humans have offspring which grow into adults Find out about basic needs of animals including humans for survival	Everyday Materials Identify and compare the suitability of a variety of everyday materials Find out how the shapes of some everyday materials can be changed by squashing, bending, twisting and stretching TAPS Materials hunt (gather and record data) Waterproof materials (ask and answer simple questions) Rocket mice (simple testing to answer questions)	length varies Plants Observe and describe how seeds and bulbs grow into mature plants Find out and describe how plants stay healthy <u>TAPS</u> Compare plant growth (observe closely using simple equipment)	Living things and their habitats Compare differences between living, dead and never been alive Living things' habitats are suited to them TAPS Nature spotters (identifying and classifying) Sorting living and non-living (idenfiying and classifying)	Living things and their habitats Identify and name a variety of plants and animals in habitats including microhabitats Simple food chains TAPS Feeding simulation (observe closely) Woodlice Habitat (gather and record data) Educational Visit link: Lion Saltworks





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	Rocks	Forces and Magnets	Forces and Magnets	Light	Plants	Animals including humans
ε	Compare and group together	Compare how things move on different	Observe how magnets can attract	Recogise that they need light to see	Identify and describe functions of	Identify that animals, including
	different kinds of rocks	surfaces	and repel each other and attract	things and dark is the absence of light	different parts of a plant	humans, need the right types and
	Describe how fossils are formed	Notice that some forces need contact	some materials but not others	Light is reflected from surfaces Light from the sun is dangerous shadows	Explore requirements for plants to survive and how these differ from	amounts of nutrition and that they cannot make their own food
	Recognise that soils are made from	between two objects	Compare and group together	0		
	rock and organic matter	Notice that magnetic forces can act at a	everyday materials based on	are formed when light source is blocked	plant to plant	Identify that humans and some other animals have a skeleton and muscles
	TAPS	distance	whether they are attracted to	by an opaque object Find patterns in how shadows change	Investigate how water is transported in plants	for support, protection and
	Reporting on rocks (reporting on	TAPS	magnets Describe magnets as having two	Find patterns in now shadows change	Plant life cycle: seed dispersal,	movement
	finding from enquiries)	Shoe grip (set up simple enquiries)	poles	TAPS	pollination and seed formation	novement
Year 3	inding from enquines)	Balloon rockets (drawing simple	poles	Can everything make a shadow? (gather		
>		conclusions)	TAPS	and record data to answer questions)	TAPS	
		Car ramps (gather, record and present	What is the strongest magnet? (set		Close observation of plants (systematic	
		data with bar charts)	up simple fair and comparative		and careful observations)	
			tests)		Function of a plant stem (using	
					scientific evidence to answer	
					questions)	
					How much water do plants need?	
					(making systematic and careful	
					observations and measurements)	
	Sound	Electricity	Living things and their habitats	Animals inc humans – digestive system	Animals including humans – food	States of matter
	Identify how sounds are made,	Identify common appliances that run on	Recognise that living things can be	and teeth	chains	Compare and group materials
	associating some of them with	electricity.	grouped in a variety of ways.	Describe the simple functions of the	Construct and interpret a variety of	together, according to whether they
	something vibrating.	Construct a simple series electrical	Explore and use classification keys to	basic parts of the digestive system in	food chains, identifying producers,	are solids, liquids or gases.
	Recognise that vibrations from	circuit, identifying and naming its basic	help group, identify and name a	humans.	predators and prey.	Observe that some materials change
	sounds travel through a medium to	parts, including cells, wires, bulbs,	variety of living things in their local	Identify the different types of teeth in		state when they are heated or
	the ear.	switches and buzzers.	and wider environment.	humans and their simple functions.		cooled, and measure or research the
	Find patterns between the pitch of a	Identify whether or not a lamp will light	Recognise that environments can			temperature at which this happens
	sound and features of the object	in a simple series circuit, based on	change and that this can sometimes	TAPS		in degrees Celsius (°C).
	that produced it.	whether or not the lamp is part of a	pose dangers to living things.	Teeth (eggs) in liquid (drawing		Identify the part played by
r 4	Find patterns between the volume	complete loop with a battery.		conclusions)		evaporation and condensation in the
Year	of a sound and the strength of the	Recognise that a switch opens and closes	TAPS			water cycle and associate the rate of
	vibrations that produced it.	a circuit and associate this with whether	Local environment study (gather,			evaporation with temperature.
	Recognise that sounds get fainter as the distance from the sound source	or not a lamp lights in a simple series circuit.	record and classify data)			TADS
						TAPS
	increases.	Recognise some common conductors and insulators, and associate metals with				Measuring temperatures (taking accurate measurements)
	TAPS	being good conductors.				Drying materials (set up a fair test)
						Diving matchais (set up a fair test)
		TAPS				
	 String telephones (identifying similarities and differences in scientific ideas) Investigating pitch (asking and answering questions) 	TAPS Does it conduct electricity? (reporting findings – drawing conclusions)				





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	Forces	Materials	<u>Materials</u>	Living things and their habitats	Space	Animals including humans
	Explain that unsupported objects fall	Compare and group together everyday	Compare and group together	Compare life cycles of a mammal,	Describe the movement of the Earth,	Describe the changes as humans
	towards Earth because of gravity	materials based on their properties	everyday materials based on their	amphibian, insect and bird	and other planets, relative to the sun	develop into old age
Year 5	Identify effects of air resistance,	Know that some materials dissolve in	properties	Describe life process of reproduction in	Describe the movement of the moon	
	water resistance and friction	liquid and describe how to recover a	Know that some materials dissolve in	some plants and animals	relative to Earth	TAPS
	Recognise that some mechanisms,	substance from a solution	liquid and describe how to recover a		Describe the sun, moon and Earth as	Growth Survey (take measurements)
	including levers, pulleys and gears	Use knowledge of solids, liquids and	substance from a solution	TAPS	approximately spherical bodies	
	allow a smaller force for a greater	gasses to separate mixtures	Use knowledge of solids, liquids and	Seed dispersal survey (record data and	Use the idea of the Earth's rotation to	RSE – PSHE Link
	effect		gasses to separate mixtures	results with increasing complexity)	explain day and night	
		TAPS	0	Life cycle research (report findings from		
>	TAPS	Champion taps (Report and present	TAPS	enquiries)	TAPS	
	Spinners (measure taking repeated	findings from enquiries, including	Sugar stacks (gather and record data	circuites	Craters (gather and record data using	
	readings)	conclusions and explanations of degree	in tables)		tables and graphs)	
	Aquadynamics (explaining trust in	of trust in results)	Insulation layers (making predictions)		Space research (scientific enquiries to	
		Testing nappy absorbancy (plan with	Dissolving (plan scientific enquiry)		answer questions)	
	results)		Dissolving (plan scientific enduliy)			
		controlling variables)			Educational Visit Link: Jodrell Bank	
					Educational visit Link: Jodreil Bank	
	Electricity	Light	Animals inc humans – circulatory	Living things and their habitats	Animals inc humans – diet, exercise	Evolution and inheritance
	Associate the brightness of a lamp or			Describe how living things are classified	and drugs	Recognise that living things have
	the volume of a buzzer with the	Recognise that light appears to travel in	<u>system</u> Identify and name the main parts of		Recognise the impact of diet, exercise,	changed over time and that fossils
		straight lines.	<i>·</i>	into broad groups according to common observable characteristics and based on		5
	number and voltage of cells used in	Use the idea that light travels in straight	the human circulatory system, and		drugs and lifestyle on the way their	provide information about living
	the circuit.	lines to explain that objects are seen	describe the functions of the heart,	similarities and differences, including	bodies function.	things that inhabited the Earth
	Compare and give reasons for	because they give out or reflect light into	blood vessels and blood.	microorganisms, plants and animals.	Describe the ways in which nutrients	millions of years ago.
	variations in how components	the eye.		Give reasons for classifying plants and	and water are transported within	Recognise that living things produce
	function, including the brightness of	Explain that we see things because light	TAPS	animals based on specific characteristics.	animals, including humans.	offspring of the same kind, but
	bulbs, the loudness of buzzers and	travels from light sources to our eyes or	Heart rate poses (test results and			normally offspring vary and are not
	the on/off position of switches.	from light sources to objects and then to	predictions – fair and comparative	TAPS		identical to their parents.
Year 6	Use recognised symbols when	our eyes.	testing)	Flower sampling (plan different types of		Identify how animals and plants are
Ye	representing a simple circuit in a	Use the idea that light travels in straight		scientific enquiries)		adapted to suit their environment in
	diagram.	lines to explain why shadows have the		Outdoor keys (classification keys to		different ways and that adaptation
		same shape as the objects that cast		record results)		may lead to evolution.
	<u>TAPS</u>	them.		Invertebrate research (report and		
	Bulb brightness (plan scientific			present findings)		TAPS
	enquiry – variables)	TAPS				Fossil habitats (identifying scientific
		Raising and sorting light questions				evidence)
		(identifying scientific enquiries)				Egg strength (explain degree of trust
		Investigating shadows (take accurate				in results)
		measurements and record data on				
		graph)				
-				British Science Week	Outdoor Classroom Day	
Whole school						
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