

Page details for each unit are below or follow hyperlink (CTRL click to follow link)

Unit	Page	Unit	Page
Year 1 Plants	2	Year 5 Living things and their habitats	23
Year 1 Animals including humans	3	Year 5 Animals including humans	25
Year 1 Everyday materials	4	Year 5 Properties and changes of materials	26
Year 1 Seasonal Changes	5	Year 5 Earth and Space	27
		Year 5 Forces	28
Year 2 Living things and their habitats	6		
Year 2 Plants	7	Year 6 Living things and their habitats	29
Year 2 Animals including humans	8	Year 6 Animals including humans	30
Year 2 Uses of everyday materials	9	Year 6 Evolution and inheritance	31
		Year 6 Light	32
Year 3 Plants	10	Year 6 Electricity	33
Year 3 Animals including humans	11		
Year 3 Rocks	12		
Year 3 Light	14		
Year 3 Forces and magnets	15		
Year 4 Living things and their habitats	16		
Year 4 Animals including humans	17		
Year 4 States of matter	19		
Year 4 Sound	21		
Year 4 Electricity	22		
•			



Y1 Plants			
National Curriculum statutory requirements	 Pupils should be taught to: identify and name a variety of common wild and garden plants, including deciduous and evergreen trees identify and describe the basic structure of a variety of common flowering plants, including trees. 		
Suggested learning	sequence – key knowledge	Possible learning activities	
humans. 2. Parts of all plan Flowering plan 3. Some common buttercup, dan 4. Parts of a tree a variety of specific sycamore, ash,	nt include: roots, stem, leaves its also have petals. (across a variety of species). it wild and garden plants include: daisy, primrose, idelion, bluebells, daffodils, wild garlic, sunflowers. include: roots, trunk, branches, leaves, flowers (across ecies). ies lose their leaves for part of the year (e.g. oak, willow, beech) is keep their leaves all year (e.g. Yew, Pine, Spruce).	 Outdoor walk to observe parts of trees and plants in local area. Match/draw/label key parts of plants. Children identify different plants in local area. Could use a plant recognition app or field guide to support this. Match/draw/label key parts of trees. Compare these to plants – what is same/different. Identify common deciduous trees. 	
		6. Identify common evergreen trees. Classify evergreen and deciduous trees.	
Assessment priorities (focusses on key knowledge)	 Name the key parts of plants and trees Name common wild and garden plants and trees Describe differences between deciduous and everg 	reen trees	



	SCHOOL	.s trust
Year 1 Animals inc	luding humans	
National	Pupils should be taught to:	
Curriculum	Identify and name a variety of common animals inclu	uding fish, amphibians, reptiles, birds and mammals
statutory	• Identify and name a variety of common animals that	are carnivores, herbivores and omnivores.
requirements	Describe and compare the structure of a variety of compare the structure of the structure of the structure of a variety of compare the structure of the struc	ommon animals (fish, amphibians, reptiles, birds and mammals, including
	pets)	
i	• Identify, name, draw and label the basic parts of the	human body and say which part of the body is associated with each sense.
Suggested learning	g sequence – key knowledge	Possible learning activities
1. The key parts	of the human body are head, neck, face, ears, eyes, hair,	1. Pupils draw around another pupil on big paper and label basic body
mouth, teeth,	arms, elbows, hands, legs, knees and feet.	parts.
2. Eyes are for sign	tht, ears are for hearing, skin is for touch, nose is for	2. Children are provided with an activity to understand their senses
smell, tongue	is for taste.	through food (smell, touch, taste, sight, sound).
	als (fish, amphibians, reptiles, birds and mammals)	3. Look at different pictures of animals and group them according to
	have different structures. There is no need to define animal groups at their features.	
	this stage, only identify the structure and features of a variety of Highlight breadth of group by discussing less common animals fr	
	common animals. each groups e.g. water based mammals.	
Fish include: Shark, Cod, Goldfish, Eel.		
Amphibians include: Frog, Toad, Newt, Axolotl, Salamander.		
Reptiles include: Snakes, Lizards, Crocodiles, Turtles.		
	Pidgeon, Duck, Emu, Penguin	
	ude: Human, Cat, Elephant, Whale, Dolphin	4. Children dissect (false need to dissues whather the enimed is a
	an animal that eats other animals, a herbivore is an	4. Children dissect 'fake poo' to discuss whether the animal is a
animal that ea	ts plants, an omnivore is an animal that eats both other	herbivore, omnivore or carnivore based on the material (fur, seeds, grass, feathers).
	lude: Tiger, Crocodile, Orca, Bald Eagle.	5. Group animals together according to whether they are carnivores,
	lude: Horse, Rabbit, Snail, Grasshopper, Parrotfish.	herbivores or omnivores. <i>There is no need to teach grouping at this</i>
	lude: Bear, Fox, Chicken, Crow, Turtle.	stage.
Assessment		
priorities	Traine and laser the same parts of the name sour, moraling the five senses and the sour parts associated with them	
(focusses on key	 Identify a range of carnivores, herbivores or omnivor 	
knowledge)	- identity a range of carmivores, herbivores of offillition	es and describe their diet.
0-7		



Y1 Everyday Mate	rials		
National	Pupils should be taught to:		
Curriculum	Distinguish between an object and the material from which it is made.		
statutory	 Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. Describe the simple physical properties of a variety of everyday materials. 		
requirements			
	 Compare and group together a variety of everyday n 	naterials on the basis of their simple physical properties.	
Commented Income		Described beautiful activities	
	g sequence – key knowledge	Possible learning activities	
1. Common mate	erials used to make objects include wood, plastic, metal, c.	 Go on a walk to identify different materials around the school or local area. 	
	s the substance an object is made from and an object rom more than one material.	2. Look at a range of objects and identify the material(s) used to make the object.	
 Common properties of materials include shiny, dull, stretchy, rough, smooth etc. Different materials have different properties. Some materials e.g. plastic can be in different forms with very different properties. 		3. Feely bags – children describe the properties of an object. Odd one out activity. Look at examples of plastics and identify different properties e.g. some are flexible, some of transparent. Test the properties of objects e.g. absorbency of cloths or	
different prop	er ties.	waterproofness of materials.	
or wooden spo		4. Classify in different ways one type of object made from a range of materials e.g. a collection of spoons made of different materials.	
5. Materials or o	bjects can be grouped by similar physical properties.	 Classify materials based on their properties. Classify objects made of one material in different ways e.g. a group of object made of metal. 	
Assessment	Names of common materials.		
priorities	Identify properties of materials		
(focusses on key knowledge)	Group objects based on the properties of the materi	ials they are made from.	



	Serious Intal		
Year 1 Seasonal cha	anges		
National	Pupils should be taught to:		
Curriculum	observe changes across the 4 seasons		
statutory	 observe and describe weather associated with the se 	امعدما	as and how day length varies
requirements	Observe and describe weather associated with the st	20301	is and now day length valles
Suggested learning	sequence – key knowledge	Pos	sible learning activities
This unit could be d	completed as a discrete unit or could be completed across	the	year as the seasons change.
1. The UK has fou	r seasons: spring, summer autumn & winter.	1.	Pupils record the weather throughout the year and observe patterns.
The seasons ar	e associated with typical weather e.g. warmth in		Pupils identify the season from descriptions of weather, plants etc.
summer and co	••		
2. The sun only sl	nines on half the Earth at any time. Daytime occurs	2.	Use a globe and torch to show night and day. Rotate the globe to
when a location faces the sun, nighttime occurs when a location faces			show sunrise and sunset.
away from the			
•	s always day, half is always night.		
	laytime changes depending on the season:	3.	Record the length of day over the course of a year (sunrise/sunset
_	days are longer, in winter they are shorter.		data from met office).
	,		,
Assessment	Seasons and associated weather and day length.		
priorities	 How day/night is cause by sunlight. 		
(focusses on key	Thew day/inghe is cause by sumight.		
knowledge)			
Wild MicaBc)			



National	Pupils should be taught to:		
Curriculum	 explore and compare the differences between things that are living, dead, and things that have never been alive 		
statutory requirements	 identify that most living things live in habitats to wh needs of different kinds of animals and plants, and h identify and name a variety of plants and animals in 	ich tl iow t thei	hey are suited and describe how different habitats provide for the basic they depend on each other
Suggested learnin	g sequence – key knowledge	Pos	ssible learning activities
•	p of year 1 knowledge) deciduous or evergreen.	1.	Decide is a tree is deciduous or evergreen from its foliage at different times of the year.
	of different plants but they all have similar		Match the names of common plants to their pictures.
	s (roots, leaves etc).		Name common animals from each grouping.
	similar characteristics are grouped together (fish,		Identify whether animals are carnivores, herbivores or omnivores.
	eptiles, birds and mammals).		,
Animals can b	Animals can be carnivores, herbivores or omnivores.		
2. Things can be	:	2.	Identify object from a picture. Go on a walk to identify living/non-
Living (moves animals)	, grows, requires food & reproduces e.g. plants &		living/dead.
Dead (was on	Dead (was once living but is no longer e.g. wood, leaves & bones)		
Never being a	live (materials like glass, metal & plastic or water & air)		
3. Animals get the	neir food from eating plants and/or other animals. This	3.	Produce simple food chains: grass-rabbit-fox, seaweed-fish-Sea Lion.
can be represented by a simple food chain.			
	neir food from within their habitat.	4.	Look at contrasting habitats e.g. polar, desert and coastal. Why are
	A habitat is an area where plant and animals live and need each other plants and animals suited to the habitat?		
	to survive. Plants and animals are suited to the habitat they live in.		
	at is a very small part of a habitat e.g. a patch of soil, a	5.	Investigate a microhabitat e.g. under a log, under a stone or a patch
	pool or under a log.		of grass and identify the plants and animals that live there.
Assessment	Habitats and the suitability of plants and animals to	surv	ive in the habitat.
priorities	Simple food chains.		
(focusses on key			
knowledge)			

Year 2 – Living things and their habitats



	OLS TROST		
Y2 Plants			
National Pupils should be taught to:	Pupils should be taught to:		
• observe and describe how seeds and bulbs grow in	observe and describe how seeds and bulbs grow into mature plants		
• find out and describe how plants need water, light			
requirements	, , ,		
Suggested learning sequence – key knowledge	Possible learning activities		
1. Recall from year 1:	1. Draw/label parts of plant.		
Basic structure of a plant/tree (Y1 knowledge).			
Like animals, plants are living things and reproduce.			
2. Plants may grow from either seeds or bulbs.	2. Plant a variety of seeds and bulbs – keep a diary (photo?). Make		
Seeds germinate and grow into seedlings which then continue to	predictions about which seed will germinate first/grow into the		
grow into mature plants.	largest plant.		
3. Plants change over time.	3. Make observations of the process of germination using magnifying		
	glasses. Match photos of seeds/seedlings/mature plants		
4. Plants need water, light, air and suitable temperatures to survive.	4. Research what different plants need to survive and grow.		
If they do not receive the right amount of each they will die.	8. c		
5. Different plants require different amounts of resources to grow and	5. Plant seedlings in different conditions (normal/no, more or less		
stay healthy.	water/no, more or less light/no more or less warmth).		
Plants are suited to the habitat they live in, e.g. a cactus needs little	Research plants from different environments and how their needs are		
water and a periwinkle can survive in shade.	different.		
water and a periwinkle can survive in snade.	different.		
Assessment • How plants grow and change over time.	· L		
priorities • Plants need air, water, light and suitable temperatu	res		
, , , , , , , , , , , , , , , , , , , ,			
knowledge)	,		
Miowicage			



Year 2 Animals inc	luding humans		
National	Pupils should be taught to:		
Curriculum	notice that animals, including humans, have offspring which grow into adults		
statutory		mals, including humans, for survival (water, food and air)	
requirements		ating the right amounts of different types of food, and hygiene.	
		70	
Suggested learning	uggested learning sequence – key knowledge Possible learning activities		
1. Animals repro	duce and have offspring that grow into adults over	1. Share the story 'Monkey Puzzle'. Pupils play 'pairs' to match the	
time. Different	t animals are born and grow in different ways.	animals with its offspring.	
2. All animals ne	ed water, food and air to survive.	2. Pupils draw around another pupil and write the basic survival needs	
		inside the outline. Pupils write the 'unnecessary' things for humans	
		on the outside.	
3. A human requires exercise to build and maintain strong bones,		3. Pupils carry out a simple comparative test of heart rate before and	
muscles and maintain flexibility.		after exercise. Discuss how the body physically feels after exercise.	
4. A human requ	ires a healthy balanced diet to provide the right	4. Teacher models packing a healthy packed lunch box. Pupils pack a	
nutrients to gr	ow and maintain health.	healthy, balanced lunch box. This activity can include washing hands.	
5. A human need	ds to maintain hygiene e.g. washing hands, to avoid	5. Pupils produce a poster encouraging others to wash hands after going	
catching and spreading disease.		to the toilet.	
Assessment	Identify some animals and their offspring.		
priorities	Explain that all animals need water, food and air to survive.		
(focusses on key			
knowledge)			



Y2 Uses of everyda	y Materials	
National Curriculum statutory requirements	cardboard for particular uses	veryday materials, including wood, metal, plastic, glass, brick, rock, paper and some materials can be changed by squashing, bending, twisting and
Suggested learning	sequence – key knowledge	Possible learning activities
Common mater rock and fabric Common prop smooth etc. 2. The material urobject. Some robetter choice to 3. Some objects cor wooden specified by the common specified or strough the common specified or strough the common specified or strough the usually a push,	sed to make an object should be suitable for that naterials are more suitable than others, e.g. wood is a han brick for furniture. can be made from different materials e.g. plastic, metal bons. The choice depends on the use e.g. plastic is metal lasts longer.	 Look at a range of objects and identify the material(s) used to make the object. Feely bags – children describe the properties of an object. Odd one out activity. Think about a range of objects and decide the best material for that object. Decide on poor materials for an object and why. Look at a range of house building materials (mud, brick, wood, ice) and think of advantages and disadvantages of each. Use Playdoh to experience squashing, bending, twisting and stretching. Investigate the size of force required to squash a sponge.
Assessment	Name some common materials and describe their p	roperties
priorities	Select appropriate material for an application	
(focusses on key knowledge)		



Y3 Plants			
National Curriculum statutory requirements	Pupils should be taught to: identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant investigate the way in which water is transported within plants		
Suggested learnin	 explore the part that flowers play in the life cycle of g sequence – key knowledge 		vering plants, including pollination, seed formation and seed dispersal. possible learning activities
Recall from year Plants require live.		_	Grow plants but deprive of resource. Plant dissection and identification.
2. Roots absorb water and provide stability. Plants also require nutrients from the soil.		2.	Look at pictures of plant roots and discuss shape. Could grow plant in thin glass container and observe root growth.
3. Stem / trunk	provides strength and transport water.	3.	
	light to create food. Plants need sufficient room to excess competition for resources e.g. light.	4.	Make observations of a variety of leaves, how do the features of the leaves help them to do their job?
5. Flowers attract	ct insects for pollination.	5.	Children create a pollination storyboard.
6. Seeds form w strawberries)	ithin a flower following pollination (eg dandelion,	6.	Dissect flowers to explore seed formation.
7. Seeds of flow explosion and	ering plants can be dispersed by wind, animals, I water.	7.	Classify seeds by dispersal methods.
Assessment priorities (focusses on key knowledge)	 The functions of roots, stem, leaves and flowers. Pollination and seed formation. Seed dispersal. 	•	



Year 3 Animals inc	luding humans		
National	Pupils should be taught to:		
Curriculum	• identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own		
statutory	food; they get nutrition from what they eat		
requirements	• identify that humans and some other animals have s	skeletons and muscles for support, protection and movement.	
Suggested learning	g sequence – key knowledge	Possible learning activities	
1. All animals ne	ed water, food and air to survive. A human requires a	1. Design breakfast, lunch and dinner for a healthy diet.	
healthy balance	ed diet to provide the right nutrients to grow and		
maintain healt	th (year 2 Animals incl. humans).		
2. Animals canno	ot produce their own food (unlike plants) and get	2. Draw simple food chains given some examples of organisms.	
	their food. A food chain shows the transfer of nutrition		
from plants to animals e.g. grass-rabbit-fox. 3. There are five main food groups (carbohydrates, proteins, dairy, fats,			
		3. Pupils look at different food labels and identify nutritional food	
fruit and vegetables).		groups.	
4. A healthy animal requires the right amount of each food group			
5. Some animals have skeletons which provide support, protection and		4. Revisit the breakfast, lunch and dinner from 1. and check if it has a	
		balance of nutritional groups.	
movement. The main bones are the skull, jaw, spine, humerous, ulna, radius, pelvis, femur, tibia and fibia.		5. 'Simon says' activity, using skeleton parts e.g. touch your skull.	
	•	Pupils given an empty glove and discuss the structure of it without	
	have muscles which provide support and movement by	'bones'. Children then use straws to show that 'bones' form support.	
moving the bo	nes of the skeleton.	6. Pupils try to feel their muscles moving as the bend their joints.	
		Highlight that muscles are pulling joints, not pushing them.	
Assessment	Explain that animals get nutrition from food but plants can make their own.		
priorities	A healthy animal requires the right amount and types of nutrition.		
(focusses on key	Skeletons and muscles provide support, protection and movement.		
knowledge)			



Year 3 - Rocks			
National	Pupils should be taught to:		
Curriculum	compare and group together different kinds of rocks on the basis of their appearance and simple physical properties		
statutory	describe in simple terms how fossils are formed when things that have lived are trapped within rock		
requirements	 recognise that soils are made from rocks and organi 	c matter.	
Suggested learning s	sequence – key knowledge	Possible learning activities	
absorbent, bendy	s include soft, hard, shiny, dull, transparent, waterproof, , stiff, rough, smooth (year 1 materials)	Match materials to their properties and then to suitable applications e.g. plastic-waterproof-umbrella	
waterproof plastic	d for specific purposes based on their properties e.g. c used for umbrellas (year 2 materials) occurring material which has a range of uses e.g. building,	2. Go for a walk and find examples of rocks used for different purposes e.g.	
ceramics, making	glass, pumice. There are many different types of rock. ineral material formed as part of the earth's surface	building, statues, glass, ceramics	
millions of years a 4. Rocks can be grou	go (as well as other planets). ped together based on their appearance and simple	3. Look at structure of earth and identify magma. Discuss cooler layer on top has solidified to become rock.	
physical features (some rocks are durable/not durable, permeable/impermeable, shiny/smooth/glassy).		4. Group rocks together based on their simple physical features.	
5. Rocks are categorised as: Sedimentary: formed from layers of oceanic sediment. Igneous: formed when molten rock solidifies and crystalises. Metamorphic: formed when sedimentary or igneous rock is changed (normally by temperature or pressure).		 Look at examples of the main rock types with magnifying glasses and note observations. Devise a test to investigate the hardness of a range of rocks. Devise a test to investigate how much water different rocks absorb 	
dead organism (pl	ed millions of years ago from the preserved remains of a lants and animals).	Observe how rocks change over time e.g. gravestones or old building. 6. Story map the fossilisation process. Research using secondary sources how fossils are formed. Research the work of Mary Anning.	
 Fossils are not skeletons, but a replica of the skeleton as the skeleton has dissolved/decayed and been replaced by minerals. 		7. Observe soils closely. Using a magnifying glass, look at soils and discuss what it is made up of.	
	8. Rocks, combined with organic matter, make up soil.		
	 Name and describe three main types of rock. 		
•	Classify rocks in a range of different ways, using appropria	ate vocabulary.	
on key knowledge)			
Identify plant/animal matter and rocks in samples of soil			



Year 3 Light		
National Curriculum statutory requirements	 Pupils should be taught to: recognise that they need light in order to see things and that dark is the absence of light notice that light is reflected from surfaces recognise that light from the sun can be dangerous and that there are ways to protect their eyes recognise that shadows are formed when the light from a light source is blocked by an opaque object find patterns in the way that the size of shadows change. 	
Suggested learning	g sequence – key knowledge	Possible learning activities
 e.g. the moon 2. You need a sor 3. Light is reflected than others. 4. We see object our eyes. 5. Materials can Opaque mater 6. Shadows are for 7. The size of shat the object. Clos 8. Sun light is day 	are sources of light e.g. the sun and others reflect light urce of light to see. Without light it is completely dark. ed off all surfaces. Some surfaces are more reflective s when light from a source reflects off the object into be grouped into transparent/translucent/opaque. rials block light. formed when light is blocked by an opaque object. adow depends on the distance between the light and oser objects block more light and have larger shadows. Ingerous, it can burn the skin and damage the eyes. creen and sunglasses are ways to block the sun.	 Identify and sort light/non-light sources Experiment with light sources e.g. shining torches on a selection of materials and observe reflections. Draw light ray diagrams to show light traveling from an object to our eyes. Sort and identify transparent, translucent and opaque materials by investigating how much light passes through them. Explore the creation of shadows using a light source and opaque materials. Make shadow puppets to investigate how the size and shape of shadows change. Create a sun protection poster identifying ways of protecting ourselves from the sun.
Assessment priorities (focusses on key knowledge)	riorities • We see the light reflected off surfaces. • Objects can be transparent, translucent or opaque.	



Year 3 Forces and Magnets

National Curriculum statutory requirements

Pupils should be taught to:

- compare how things move on different surfaces
- notice that some forces need contact between two objects, but magnetic forces can act at a distance
- observe how magnets attract or repel each other and attract some materials and not others
- compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials
- describe magnets as having 2 poles
- predict whether 2 magnets will attract or repel each other, depending on which poles are facing.

Suggested learning sequence – key knowledge

1. A force is a push or a pull which affects the motion of an object. It can also change an objects shape by squashing, twisting etc.

- 2. Friction is a force between touching objects that opposes the movement of an object. Different surfaces exert different friction.
- 3. Forces can be contact (e.g. friction) or non-contact (e.g. magnetic). For example, magnets produce an invisible force (attract/repel) which can act at a distance (non-contact)
- 4. Magnets have two poles, North and South. Opposite poles attract. Like poles repel.
- 5. Magnetic materials (Iron, Nickel, Cobalt) are attracted to magnets (either pole). Materials can be grouped according to whether they are magnetic or not.

Possible learning activities

- 1. Explore a range of everyday push and pull forces, identifying the force involved. Observe how forces change the shape of playdoh.
- 2. Investigate the effect of different surfaces on the motion of an object e.g. toy car on slope of different surfaces or force required to move an object on different surfaces (could use Newton meters).
- 3. Observe that forces can be contact and non-contact through using magnets e.g. moving a paperclip with a magnet.
- 4. Predict whether two magnets will attract or repel each other, depending on which poles are facing.
- 5. Group a range of objects, based on their magnetic/non-magnetic properties.

Assessment priorities (focusses on key knowledge)

- How different forces affect the motion of an object (speed up or slow down).
- Different surfaces can affect the motion of an object due to friction.
- Forces can be contact (push/pull) or non-contact (magnetic).
- Magnets have 2 poles which attract or repel.
- Some materials are magnetic, which means they are attracted to magnets.



Year 4 – Living thin	Year 4 – Living things and their habitats			
National	Pupils should be taught to:			
Curriculum	recognise that living things can be grouped in a variety of ways			
• explore and use classification keys to help group, identify a		and r	name a variety of living things in their local and wider environment	
requirements			netimes pose dangers to living things.	
Suggested learning	sequence – key knowledge	Pos	ssible learning activities	
1. Recap previous	nowledge:	1.	Group animals by key characteristics e.g. fish have fins and gills, birds have	
Trees can be ded	iduous or evergreen.		beaks, mammals have hair.	
Animals with sin	nilar characteristics are grouped together (fish, amphibians,		Identify whether local trees are deciduous or evergreen.	
reptiles, birds ar	d mammals).			
2. Animals can be	classified as vertebrates (fish, amphibians, reptiles, birds, and	2.	Sort animals in vertebrates and invertebrates.	
mammals) or inv	vertebrates (snails and slugs, worms, spiders, and insects).		Sort plants into flowering and non-flowering.	
Plants can be cla	ssified as flowering and non-flowering.			
3. A classification k	ey is used to classify a group of organisms by splitting them			
down into small	er and smaller groups based on characteristics.	3.	Give pupils a classification key with animals cut out. Pupils put the animals	
			into the correct place according to the questions.	
• •	4. Recap previous knowledge:		Pupils create their own classification key for a habitat.	
	rea where plant and animals live and need each other to			
	nd animals are suited to the habitat they live in.	4.	Consider what makes plants and animals suitable for their habitat e.g.	
_	r food from within their habitat.		cactus, arctic fox.	
	represent what animals eat in a habitat.			
	nt of a habitat changes it can affect the plants and animals			
that live there, o	ften badly. Example, climate change, deforestation, mining	5.	Give a local context: trees being ripped up and being replaced by play	
or farming.	or farming.		equipment. How are habitats affected? Come up with solutions such as: bug	
If one organism	If one organism in a food chain if affected, it can affect other organisms.		hotels, planting more trees elsewhere.	
			Interpret food chains to identify what will happen to animals above or below	
			in the food chain if environmental change reduce the numbers of an animal.	
Assessment	 Classify animals into groups including vertebrates and inv 	erteb	prates	
priorities (focusses	Correctly read a classification key			
on key knowledge)	on key knowledge) • Effect of natural and human impact on environments and habitats.			



Ye	ar 4 Animals including humans			
Na	tional Pupils should be taught to:			
Cu	rriculum • describe the simple functions of the basic parts of the dig	gestive system in humans		
	• identify the different types of teeth in humans and their s	simple functions		
red	 construct and interpret a variety of food chains, identifyir 	ng producers, predators and prey.		
	ggested learning sequence – key knowledge	Possible learning activities		
1.	Animals cannot produce their own food (unlike plants) and get nutrition	1. Pupils record their food from last 24 hours (or an example) and identify		
	from their food.	which food groups are included.		
2.	A food chain shows the transfer of nutrition from plants to animals e.g.	2. Create food chains to identify producers, prey and predators.		
	grass-rabbit-fox or Seaweed-Crab-Squid-Shark. Food chains are made up of	A range of ecosystems should be included e.g. land and marine.		
	producers, prey and predators.	Increase the number of organisms in the chain to challenge.		
	Producers – plants that produce their own food from sunlight			
	Predators – animals that feed on other animals			
	Prey – animals that are eaten by other animals	2. December the function of the mante of the dispetitive system.		
3.	Humans absorb nutrition through the digestive system.	3. Research the function of the parts of the digestive system.		
	The basic parts of the human digestive system are: teeth, mouth,			
	oesophagus, stomach, small intestine, large intestine, rectum, anus.			
4.		4. Pupils feel their different teeth with their tongues or look at them with a		
	The different types of teeth in humans are: incisors (cutting); canines	mirror and describe the shape.		
	(tearing); premolars/molars (crushing/grinding).	Make models of different teeth and explain their shape.		
5.		5. Describe the journey of a cheese sandwich through the digestive system.		
	swallowed.	Label a blank diagram with the digestive organs and their functions.		
	Oesophagus – the food is sent to the stomach.	Create a model of the digestive system using household items.		
	Stomach – food is churned with stomach acid and is pushed into the small			
	intestine.			
	Small intestine – food is broken down and nutrients absorbed.			
	Large intestine – water is absorbed and food is pushed along to the rectum.			
	Rectum – storage chamber for food that can't be absorbed.			
	Anus – waste food/faeces is excreted.			
As	sessment • Name the four different types of human teeth and their f	unctions.		
pri	orities (focusses • Name the basic parts of the human digestive system and			
_	on key knowledge) Construct and interpret food chains, identifying predators, prey and producers.			
	2 Constitute and interpret root ordinary internally in give dates of prey and producers.			



VA States of ma	the		
Y4 States of ma			
National	Pupils should be taught to:		
Curriculum	and an a group material to be the street and a second of the street and a second of the second of th		
statutory	• observe that some materials change state when they are	heated or cooled, and measure or research the temperature at which this happens in	
requirements	degrees Celsius (°C)		
	 identify the part played by evaporation and condensation 	in the water cycle and associate the rate of evaporation with temperature.	
Suggested learn	ing sequence – key knowledge	Possible learning activities	
1. Materials car	be either solid, liquid or gas at room temperature. The state of	1. Use water as an example of different states e.g. liquid at room temperature	
matter deper	nds on the surrounding temperature.	but solid in the freezer and gas when heated to steam.	
2. Solids keep t	heir shape, always take up the same space (volume) and can be	2. Draw particle diagram for a solid.	
cut into smal	ler pieces, which keep their shape e.g. salt.	Pupils act out being a solid by standing very close together and linking arms.	
The particles	in a solid are very close together and are held together very		
strongly.			
• .	and take the shape of the container they are in. Liquids change	3. Draw particle diagram for a liquid.	
-	y flow but take up the same volume.	Pupils act out being a liquid by standing very close but able to move around	
-	in a liquid are very close together but and loosely held together.	each other.	
	out to fill the container they are in. They can be compressed.	Look at liquid with different viscosities e.g. slime	
	in a gas are all separated and move around their container	4. Draw particle diagram for a gas.	
separately.	8	Pupils act out being a gas by standing very close but able to move around	
5 Sp 3.1 3.5 3.7		each other.	
		Use a blocked syringe filled with air to compress gas.	
5. Materials cha	ange state when they are heated or cooled.	5. Investigate the melting and boiling points for different substances.	
	ges to a liquid at its melting point. 0°C for water.	Investigate how evaporation rates vary with temperature.	
Solid -> liquid	•	mrestigate now evaporation rates vary with temperature.	
Liquid -> soli	_		
•	ges to a gas at its boiling point. 100°C.		
-	is boiling. At lower temperatures, evaporation can happen,		
	eratures result in greater evaporation.		
	is condensing	6. Draw diagrams of the water cycle and make links to our weather.	
-	stantly recycled through different stages by the water cycle.	Use a plastic bag and water to observe the water cycle.	
Evaporation from the surface → Condensing to clouds → Rain or snow →		ose a plastic bag and water to observe the water cycle.	
-	is to the surface.		
Assessment	Recognise particle diagrams for solids, liquids and gases.		
priorities (focusse			
•			
on key knowledge) • Describe correct state changes due to given temperature changes			



Year 4 Sound			
National Curriculum statutory requirements	 Pupils should be taught to: 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. 		
	g sequence – key knowledge		ssible learning activities
 Sound is prod The vibrations interpreted as Vibrations travelling throat travelling throat (frequency). High pitched in Low pitched in Low pitched in (amplitude). Sounds gets fathe energy be constant throat 	vel through a medium (the material the sound is bugh). This includes solids, liquids and gases. sound is a measure of how fast the object is vibrating noises have a high frequency. oises have a low frequency. If a sound is a measure of the size of the vibration winter as the distance from the source increases because comes more spread out. The speed of sound remains ugh the same medium.	 3. 4. 	Pupils draw particle diagrams of solids, liquids and gases. Pupils experiment with objects which vibrate and produce sound (elastic bands, plastic rulers, tuning forks, guitars, drums). It should be clear that the object is vibrating when making a noise. Sting and cup telephones (the sound travels through the solid string). Video clip of whales communicating over long distances through water. Pupils create instruments which create different pitches using different features (straw length, water depth in bottles, tension on elastic bands, ruler lengths). Mobile phone camera (slo-mo feature) used to see and compare vibrations. Practical activity where pupils investigate the height a ball needs to be dropped from to be heard at different distances. Use decibel meter app to measure how volume changes with distance from source.
priorities (focusses on key knowledge)	• The pitch of a sound is due to the speed of vibrations (frequency)		



Year 4 Electricity			
National	Pupils should be taught to:		
Curriculum	 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 		
statutory			
requirements			
	buzzers		
	• identify whether or not a lamp will light in a simple s	series circuit, based on whether or not the lamp is part of a complete loop	
	with a battery		
	•	d associate this with whether or not a lamp lights in a simple series circuit	
	 recognise some common conductors and insulators, 	· ·	
C	_		
	g sequence – key knowledge	Possible learning activities	
1. Electrical appli	ances convert electrical energy to other forms of	1. Identify electrical appliances and observe the effect of these being	
energy.		connected/disconnected to a power source.	
2. A simple series	circuit must include a cell, wires and an additional	2. Construct a simple circuit, including a cell, wires and an additional	
component. Bu	ulbs, switches or a buzzers are example of components.	component (bulb, buzzer, switch).	
•	vorks if there is a complete loop because the electricity	3. Create a simple series circuit and observe the effects on the function	
_ ·	und the circuit and through the components.	of a bulb when the circuit loop is broken.	
	will not work in a circuit when a switch is open because	4. Construct a simple series circuit, including a switch(es), and observe	
•	th prevents the electricity from travelling round the	the effects on the function of a bulb when the switch is open/closed.	
•	, ,	•	
circuit and so r	no electricity travels through the component.	Make switches out of a range of materials to show switch is	
		conductor.	
-	ich as metals, and insulators can affect the function of	5. Create a simple series circuit including crocodile clips and test	
components in	a circuit by allowing/disrupting the flow of electricity.	materials for conduction. Classify materials as conductors/insulators.	
Assessment	Name basic circuit components (battery, switch, wires, bulbs and buzzers)		
priorities	Drawing and interpreting circuit diagrams		
(focusses on key	 Assess circuit diagrams and identify faults. 		
knowledge)			
	,	,	



Year 5 – Living thir	ngs and their habitats		
National	Pupils should be taught to:		
Curriculum	Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird		
statutory	Describe the life process of reproduction in some plants.	and animals	
requirements			
Suggested learning	g sequence – key knowledge	Possible learning activities	
invertebrates/v Plants can be gr Animals are ada 2. A life cycle show fertilisation-birt	nals, amphibians, insects and birds) can be grouped as	 CHN are given a post-it note on their back with an animal. CHN ask 'yes or no' questions to others to identify their animal. Once all CHN know their animal, group them into mammals, amphibians, insects and birds – define what these are. Model a life cycle based on an animal such as a butterfly or frog (possibly covered in EYFS). Tell each table which animal they will be creating a life cycle on – amphibian, mammal, insect or bird. 	
 identify the similarities (e.g. eggs) and differences (e.g. metamorphosis). 3. All animals start as an egg. Only fertilised eggs will produce offspring. Fertilised eggs contain genetic material from the male (sperm) and female (egg). The male sperm fertilises the female egg. 		 Use life cycles from last lesson to identify where the egg is in the cycle. Look at various offspring and identify differences and similarities between parents and offspring due to the mixing of genetic material. 	
 Recap previous knowledge: Pollination is the process of pollen being transferred from one plant to another for reproduction. Pollination leads to plants producing seeds. Seeds can be dispersed by wind, water, being eaten or sticking to animals. Some plants start as a seed. 		4. Summarise seed dispersal methods. Look at different seeds and identify how they might be dispersed.	
Only fertilised seeds will produce offspring. Fertilised seeds contain genetic material from the male (pollen) and female (ovule). The male pollen fertilises the female ovule. 6. Plants can also reproduce asexually. Asexual reproduction in plants does not require pollination.		 Teacher plants mint or basil in the first week of teaching and brings this to the final lesson. Show them how it started and how it looks now. Show various time-lapses of other asexual plants (tubers, bulbs, etc). 	
_	de daffodils producing bulbs, strawberry plants producing toes producing tubers.	Show pictures of strawberry runners and discuss how this helps the plant reproduce and spread.	
Assessment priorities (focusses on key knowledge) • Life cycles for different animals and the differences between them. Animal reproduction Plants reproduction (sexual and asexual).		een them.	



National Curriculum statutory requirements	Pupils should be taught to: • describe the changes as humans develop to old age	
Links to Summer T 1. The stages of I	g sequence – key knowledge Ferm PSHE human growth are: foetus, baby, childhood, adulthood, old age.	Possible learning activities Produce a human growth timeline. Research the definitions of the stages of human growth.
Assessment priorities (focusses on key knowledge)	Name the stages of human growth in order.	'



Y5 Properties and	changes of materials		
National	Pupils should be taught to:		
Curriculum	• compare and group together everyday materials on the basis of their properties, including their hardness, solubility,		
statutory	transparency, conductivity (electrical and thermal), and response to magnets		
requirements	 know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving ar 		
	evaporating		
		and fair tests, for the particular uses of everyday materials, including metals,	
	wood and plastic		
	 demonstrate that dissolving, mixing and changes of 		
	,	f new materials, and that this kind of change is not usually reversible,	
	including changes associated with burning and the a		
	sequence – key knowledge	Possible learning activities	
1. Materials can b	pe grouped together based on similar properties.	1. Group a range of materials based on conductivity in a circuit, whether	
2 . A		or not they are magnetic and their solubility.	
2. A material is cr	nosen for a particular use because of its properties.	Design an item by selecting materials based on the properties of materials	
3. Some substances are soluble in water. If they dissolve, they form a		3. Discuss why nail varnish/Sharpie pen does not dissolve in water but	
solution.		will dissolve in acetone – water is not the only solvent.	
_	lute can be recovered by evaporating the solvent	Investigate how much salt can dissolve in an amount of water.	
(water).	Character and the state of the state	Investigate whether or not different substance dissolve in water.	
•	ids can be separated by sieving or filtering.	4. Separate sand and water by filtration.	
	nanges the original substance can be recovered easily. Sing and state changes are reversible.	Experiment to show that dissolving, mixing and state changes are reversible.	
•	changes, the original substances cannot be recovered	reversible.	
easily.	changes, the original substances cannot be recovered		
•	oking are examples of irreversible reactions.		
Assessment	Describe a solution as a solute dissolved in a solvent	t.	
priorities	Describe separation techniques.		
(focusses on key	Explain the difference between reversible and irreversible and irreve	ersible changes.	
knowledge)			



Year 5 Earth and	Space (this should be taught after Year 5 – Forces)		
National	Pupils should be taught to:		
Curriculum	• describe the movement of the Earth and other planets relative to the sun in the solar system		
statutory	describe the movement of the moon relative to the Earth		
requirements	 describe the sun, Earth and moon as approximately spherical bodies use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky 		
Suggested learni	ng sequence – key knowledge	Possible learning activities	
1. Year 5 Forces		1. Pupils research the strength of gravity other planets and how this	
All objects h	ave gravity forces between them. The effect due to the	affect the speed they fall.	
-	surable because the Earth has a huge mass.		
Unsupported	l objects fall to Earth because of gravity, which is an		
invisible pull	force acting between Earth and the falling object.		
2. Our solar sys	tem consists of the sun, planets and moons. These are	2. Draw labelled diagrams of the solar system.	
-	dies made of rock (inner planets) or gas (sun and outer		
	o asteroids (rocks) and dwarf planets (e.g. Pluto).		
	medium sized star at the centre of our solar system.	3. Model the solar system to scale on playing field.	
Because of its size, it exerts a large force due to gravity on planets.		Time how long it takes pupils to walk around the sun from different	
The force of gravity causes the planets, incl Earth, to orbit the sun.		distance and link to length of year on other planets.	
4. The planets	of our solar system are: Mercury, Venus, Earth, Mars,	4. Create a Mnemonic to remember the planets in order (e.g. My Very Easy Method Just Sped Up Naming).	
5. Many planet	s have moon. The Earth has one moon which orbits the	5. Research the Earth's moon. Find out about moons orbiting other	
Earth due to	gravity.	planets.	
	tates once every 24 hours. As it rotates it faces the sun for	6. Use a globe and torch to show night and day. Rotate the globe to	
some of the	time (day) and away from the sun (night).	show how sun appears to move.	
As the Earth	rotates, it <i>appears</i> that the sun is moving across the sky.		
Assessment	Structure of the solar system (sun, planets and moor	ns).	
priorities	• Motion of planets and moons as they orbit.		
(focusses on key	• Day and night due to rotation of the Earth.		
knowledge)			



Year 5 Forces			
National Curriculum statutory requirements	 Pupils should be taught to: explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object identify the effects of air resistance, water resistance and friction that act between moving surfaces recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. 		
Suggested learning	s sequence – key knowledge	Possible learning activities	
speed, shape of two objects in Frictional force 2. All objects have Earth is measure Unsupported of invisible pull forces in Moving object resistance. This	iteraction between two objects, which affects the or direction of an object. Interactions can be through contact (push/pull) or non-contact (gravity/magnets). It is oppose the motion between two objects in contact. It is gravity forces between them. The effect due to the purable because the Earth has a huge mass. Objects fall to Earth because of gravity, which is an orce acting between Earth and the falling object. It is can experience friction (surface-surface) or air/water is force opposes the motion of the object, meaning it in (if it is moving) or require a greater force to make it	 Explore a range of everyday contact and non-contact forces (push/pull, gravity and friction). Observe and measure the amount of gravity acting on an object by using a Newton Meter. Research how gravity varies on other planets and what effect this has on falling objects. Investigate the effects of manipulating surface area for air/water resistance and the effects of surface type on friction. Design parachutes to safely drop an object. 	
	f it is stationary).	Design paracrutes to safely drop an object.	
 Mechanisms, such as levers, pulleys and gears, allow smaller forces to have a greater effect. These devices allow a smaller force to have a greater effect by applying the force over a greater distance. 		4. Create a lolly stick catapult (lever mechanism), observing the effects of increasing the distance between the load and the fulcrum (pivot point).	
Assessment How a force between two objects affects the speed, shape or direction of an object.		, shape or direction of an object.	
priorities	 Unsupported objects fall to earth because of gravity 		
(focusses on key			
knowledge)	 Mechanisms, such as levers, pulleys and gears, allow smaller forces to have a greater effect. 		



Year 6 – Living thin National Curriculum statutory requirements	Pupils should be taught to: describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals. give reasons for classifying plants and animals based on specific characteristics.	
1. Recall previous Animals (mam invertebrates/ characteristics Plants can be a grouped by co. 2. Carl Linnaeus of Animals fit into example beaks 4. Use and create 5. Plants fit into leaf shape, floo Use and create 7. Micro-organism	s learning: mals, amphibians, insects and birds) can be grouped as vertebrates. These groups also have common , e.g. birds have feathers. grouped as flowering/non-flowering. Plants can be mmon characteristics e.g. leaf shape. developed a classification system, known as taxonomy. o broad groups of observable characteristics for s, wings, number of legs, feathers, hair. e a classification key to classify animals. broad groups of observable characteristics for example wers, roots, stems. e a classification key to classify plants. ms such as bacteria, yeast, toadstools, and mushrooms the two main groups of plants and animals.	 Group animals by broad categories (vertebrates/invertebrates). Identify possible groupings for animals and discuss rationale for choice. Group plants by broad categories (flowering/non-flowering). Identify possible groupings for plants and discuss rationale for choice. Research Carl Linnaeus. Use and create a classification key to classify animals into groups, justify their choices. Use and create a classification key to classify plants into groups, justify their choices. Discuss useful and harmful micro-organisms. Class could start growing mould at the beginning of the week and observe the mould.
Assessment priorities (focusses on key knowledge)	 Groups animals by common characteristics. Groups plants by common characteristics. Interpret classification keys for plants. Interpret classification keys for animals. 	



Year 6 Animals inc	Year 6 Animals including humans				
National	Pupils should be taught to:				
Curriculum	• identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and				
statutory	blood.				
requirements	recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function.				
	 describe the ways in which nutrients and water are transported within animals, including humans. 				
Suggested learning sequence – key knowledge		Possible learning activities			
1. Year 3/4 Animals incl humans (nutrition, skeletons, muscles and		1. Label a blank human body with key bones, muscles and digestive			
digestive syste	m).	organs.			
2. The circulatory	system carries oxygen and nutrients around the body to	2. Label names and functions of organs on blank human body diagram.			
where they are	e needed and removes waste (e.g. Carbon Dioxide).	Describe function of constituent parts of blood.			
The circulatory	system consists of the heart, blood vessels and blood.	Produce model of blood (only after knowledge is secure)			
The heart pum	The heart pumps blood through the lungs and around the body.				
	Blood vessels (arteries, veins and capillaries) transport blood around				
•	the body.				
	of red blood cells, white blood cells, platelets & plasma.				
	t of a healthy lifestyle.	3. Investigate effect of exercise on heart rate and breathing rate.			
	ise can lead to poor health.				
	Exercise increases the rate of circulation in order to provide more				
	trients to the body and remove more waste.				
4. Nutrients and water are transported by the circulatory system from the		4. Plan a healthy balanced meal.			
digestive syste	Design a healthy living leaflet.				
	contains the right proportion of food types.				
An unhealthy diet can lead to poor health.					
Assessment	Explain the role of the circulatory system.				
priorities	State the names and functions of the main parts of the circulatory system.				
(focusses on key	Explain the importance of exercise and nutrition in keeping healthy.				
knowledge)					



Y6 Evolution & Inheritance						
	Pupils should be taught to:					
• recognise that living things have changed over time a	 recognise that living things have changed over time and that fossils provide information about living things that inhabited the 					
statutory Earth millions of years ago	Earth millions of years ago					
requirements • recognise that living things produce offspring of the	• recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents					
 identify how animals and plants are adapted to suit to 	their environment in different ways and that adaptation may lead to					
evolution						
Suggested learning sequence – key knowledge	Possible learning activities					
1. Recap:						
Year 5 life cycles	1. Produce storyboard of sedimentary rock formation (not to include					
 Year 2 habitats – animals are suited to the habitat they live in. 	fossils)					
 Year 3 rocks – Sedimentary rocks are produced by layers of 	Identify stages of life cycles for common animals.					
marine sediment.						
2. Animals are adapted to survive in their habitat e.g. camouflaged	2. Show pupils pictures of animals and identify how they are adapted to					
insects or thick furred arctic fox. Animals which can survive in a	suit their habitat.					
habitat are more likely to produce offspring.						
3. When living things reproduce they pass on characteristics to their	3. Pupils identify characteristics they share with their parents/sibling (or					
offspring. This is known as inheritance.	you could use an example family).					
Offspring usually have different characteristics to their parents. This is	Pupils identify differences in characteristics between family members.					
known as variation.						
4. Some variation leads to an advantage in survival and reproduction in	4. Use the example of giraffes evolving longer necks over time as an					
an animals habitat (an adaptation).	advantageous adaptation for feeding.					
These animals are more likely to produce offspring leading to a long-	Peppered moth colouring changing over through the industrial					
term change in a species. This is known as evolution.	revolution.					
5. Evidence for evolution include fossils. The fossil record can show how	5. Storyboard of fossil formation.					
organisms have evolved over long time periods.	Examine fossils with magnifying glasses.					
Fossils form from the remains of organisms which died a long time	Could look at work of Mary Anning.					
ago.						
• Identify inherited and non-inherited characteristics.						
·	How variation can lead to an advantageous adaptation and evolution.					
(focusses on key • Stages of fossil formation.	0.0000 0.0000 0.0000					
knowledge) • How the fossil record is evidence for evolution.	How the fossil record is evidence for evolution.					



Year 6 Light					
National Curriculum statutory requirements	 Pupils should be taught to: recognise that that light appears to travel in straight lines use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. 				
Suggested learning	ng sequence – key knowledge	Possible learning activities			
e.g. the moor We see object our eyes. Materials can Shadows are a Light travels in Light travels of dandelion see To see an object	are sources of light e.g. the sun and others reflect light a. ts when light from a source reflects off the object into be grouped into transparent/translucent/opaque. formed when light is blocked by an opaque object. n straight lines. out from the light source in all directions (like a	 Label diagrams, applying key vocabulary: absorb; reflect; opaque. Recapping on prior knowledge from previous light unit. Explore different ways to demonstrate that light travels in straight lines e.g. shining a torch down a bent and straight hose pipe or use a laser pointer and talc to show light travelling. Draw light ray diagrams to show light travelling from a source, reflecting off an object to the eye. 			
Light ray diagrams show light travelling between a source, an object and the eye. 4. Opaque and translucent objects block light and cause shadows. 5. The shape of the shadow is the same as the shape of the object.					
		 Investigate how much light passes through different materials. Make shadow puppets to investigate the shape of shadows. 			
Assessment priorities (focusses on key knowledge)	 Light travels in straight lines. Light ray diagrams show We see objects when light from a light source reflect Shadows have the same shape as the objects that can be shaped as the objects. 	·			



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Year 6 Electricity						
National	Pupils should be taught to:					
Curriculum	_	•	a buzzer with the number and voltage of cells used in the circuit			
statutory			nponents function, including the brightness of bulbs, the loudness of buzzers			
requirements and the on/off position of switches						
		when representing a simple	e circuit in a diagram.			
Suggested learning	g sequence – key knowledge		Possible learning activities			
1. A simple series circuit must include a cell, wires and an additional		rires and an additional	1. Construct simple circuits including cells, wires, bulbs, switches and			
component linked in a single loop. (Year 4 content)		ontent)	buzzers.			
2. The electrical s	symbols for common compor	ents are:	2. Make flash cards to help learn the names and symbols for			
Cell	Switch (closed) Switch (open) Bulb		components. Convert pictures of circuits to circuit diagrams with symbols.			
Bulb						
Buzzer						
3. When a switch	s is onen other components	will not function because	3. Construct a circuit, including switch(es), and observe the effect of			
			different combinations of open and closed switches on the			
the open switch prevents the electricity from passing round the circuit.		in passing round the	component.			
	n a circuit can be affected by	the number and voltage of	4. Add cells to a circuit and observe the effect of a lamp (take care not			
•	-	•	to damage bulbs with excessive voltage!)			
brighter.	cells. More cells result in higher voltage. This will make a lamp					
•	omponents are added to a cir	cuit without more cells	5. Add increasing numbers of lamps to a circuit and observe the effect			
	its do not work as well e.g. la		on the lamps.			
the componen	its do not work as wen e.g. la	ייים מוכ מוווווווכו.				
Assessment	Assessment • Drawing circuit diagram using correct symbols.					
priorities						
(focusses on key						
knowledge)						
KITO WICUSC)						