

Science curriculum provision plan EYFS



	T 1 T 2 T 1 T 5 T 5												
	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6							
Themes	Marvellous Me!	Colours of the Rainbow	Winter Wonderland	The Great Outdoors	Animal Kingdom	Under the Sea & Pirates							
Nursery	Look at photographs of ourselves as babies — how have we changed?	Look at the colours in the environment and notice how they change.	Ice- melting and freezing. Hot and cold	Compare old trees and young trees within the school grounds	Share favourite toys. What are they made from?	Look at pictures of animals that live under the sea.							
Continuous provision	 Discuss different Use natural res Make a season Have a variety Talk about life children to exp Push and pull of Discussion and 	al tuff tray so children coof toys that children car cycles with the children lore. games. activities around wildlif	Idren. What materia an explore a variety n explore and show example fe and how we can	als can we name? y of natural items such as le s. Put these around the gar take care of our environme	den with appropriate re								
Reception	 Talk about the recycling bin and help children to select the correct bin for recycling, composting or refuse. Look at photographs of ourselves as babies – how have we changed? Look at the colours in the environment and notice how they change. Notice what happens to ice in different places. Talk about seasons Talk about seasons Talk about seasons Talk about seasons Compare different types of trees within the school grounds grounds grounds from and how do they move? learn the names of some of them.												
Continuous provision	Go for walks arDiscuss months	ound our local environr s of the year and think a sons and collect words	about which season	they fall into.									

- Make pictures using seasonal colours and natural resources.
- Visit the forest corner within the school grounds and notice changes.
- Discuss how our immediate environment looks different at different points of the year.
- Talk about animals and what time of year we see them butterflies in summer and lambs in spring.
- Talk about the recycling bin and help children to select the correct bin for recycling, composting or refuse.



Science long term plan Milestone 1 / KS1



	6 v	veeks	cl. Humans Everyday materials		6 w	eeks	6 w	eeks	5 weeks	6 weeks		
Year group1	Identify, na common ar fish, amph birds, Describe a structure common amphibians and mamr Identify and of commo are carnive and o Identify, na label the bahum Notice t including offspring v a Investigate a basic nee including survival. (v	incl. Humans ame a variety of nimals including ibians, reptiles, mammals. Ind compare the of a variety of animals (fish, s, reptiles, birds mals, including pets) I name a variety of animals that ores, herbivores of animals that ores, herbivores of animals, humans, for water, food and air) e importance for of exercise, es of food, and	Everyday I Distinguish betwee the material from I Identify and nar everyday mater wood, plastic, glass roc	en an object and which it is made. ne a variety of ials, including, metal, water and	Identify a variety of c and gard including de evergre Identify and basic stru variety o flowerin includir stem/trunk	ants Individual name a common wild len plants, eciduous and en trees. describe the acture of a formoning plants, ingroots, leaves and wers	Explore and differences that are living and that had a lidentify the things live which they describe habitats p basic neek kinds of anim and how the each lidentify and of plants a their habit micro Describe obtain their fand other at the idea of chain, and name differ	things and habitat d compare the between things g, that are dead ve never been alive at most living in habitats to are suited and how different rovide for the ds of different nals and plants, ney depend on h other. name a variety and animals in ats, including -habitats how animals cood from plants animals, using a simple food d identify and rent sources of	Plants Identify and name a variety of plants, wild plants and trees Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy	Find out how the made from so changed by squand stretching. I suitability of materials, including glass, brick/rock,	Materials e shapes of solid objects ome materials can be ashing, bending, twisting dentify and compare the a variety of everyday ing wood, metal, plastic, and paper/cardboard for ticular uses	
Introducing Vocabulary	Head, body, eyes, ears, mouth, teeth, leg, tail, wing,	Names of animals experienced first-hand from each vertebrate group	Object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil, card/cardboard,	floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, see-	Leaf, flower, blossom, petal, fruit, berry, root,	Names of trees in the local area Names of garden and wild flowering	Living, dead, never been alive, suited, suitable,	Names of local habitats e.g. pond, woodland etc. Names of micro-	Light, shade, sun, warm, cool, water, grow, healthy	Object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil,	stretchy, stiff, bendy, floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, see-through, not see- through	

Continuous	claw, fin, scales, body Senses feathers, fur, beak, paws, hooves (skin), eyes, nose, ear and tongue	rubber, wool, clay, hard, soft, stretchy, stiff, bendy,	seed, trunk, the local branch, stem, bark, stalk, bud	basic needs, food, food chain, shelter, move, feed	nic	card/cardboard, rubber, wool, clay, hard, soft,
provision	Resources: books an Activities: name that t	oss the four seasons. Obse d pictures, planters in the sch ree, animal Wiki, where did I	rve and describe wea ool gardens, window begin (materials), hov	ther associated with boxes w long is a day (sun	the seasons and	, 0
Retrieval practice	Seasons/Weather	Animals inc. humans	Everyday materials	Plants	Living things and their habitats	Plants
Year group 2 (Advancing/ Deep)	Animals incl. Humans Identify, name a variety of common animals including fish, amphibians, reptiles, birds, mammals. Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) Identify and name a variety of common animals that are carnivores, herbivores and omnivores. Identify, name, draw and label the basic parts of the human body Notice that animals, including humans, have offspring which grow into adults. Investigate and describe the basic needs of animals, including humans, for survival. (water, food and air) Describe the importance for humans of exercise, different types of food, and hygiene.	Everyday materials Distinguish between an object and the material from which it is made. Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock	Plants 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 roots, stem/trunk, leaves and flowers	Living things and their habitat Explore and compare the differences between things that are living, that are dead and that have never been alive Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other. Identify and name a variety of plants and animals in their habitats, including micro-habitats Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food	Plants Identify and name a variety of plants, wild plants and trees Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy	Materials Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick/rock, and paper/cardboard for particular uses

Consolidating Vocabulary	Head, body, eyes, ears, mouth, teeth, leg, tail, wing, claw, fin, scales, feathers, fur, beak, paws, hooves	Names of animals experienced first-hand from each vertebrate group Parts of the body Senses – touch, see, smell, taste, hear, fingers (skin), eyes, nose, ear and tongue	Object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil, card/cardboard, rubber, wool, clay, hard, soft, stretchy, stiff, bendy,	floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, see- through, not see-through	Leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud	Names of trees in the local area Names of garden and wild flowering plants in the local area	Living, dead, never been alive, suited, suitable, basic needs, food, food chain, shelter, move, feed	Names of local habitats e.g. pond, woodland etc. Names of micro- habitats e.g. under logs, in bushes etc	Light, shade, sun, warm, cool, water, grow, healthy	Object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil, card/cardboard, rubber, wool, clay, hard, soft,	stretchy, stiff, bendy, floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, see-through, not see- through
Continuous provision		es: books and	oss the four sea d pictures, plante name that tree,	sons. Observers in the scho	ve and des	s, window b	her assoc ooxes	ciated with	the seasons and	,	
Retrieval practice	Seasor	ns/Weather	Animals inc	: humans	Everyday	/ materials	PI	ants	Living things and their habitats	-	Plants



Science long term plan Milestone 2 / Lower KS2



	6 weeks	5 weeks	5 weeks	4 weeks	4 weeks	4 weeks	6 weeks	4 weeks
Year group 3	Animals, Including humans	Rocks	Light & Sound	States of matter	Electricity	Plants	Living things and their habitats	Forces and magnets
(Basic)	-Identify that animals, including humans, need the right types and amounts of nutrition, that they cannot make their own food and they get nutrition from what they eat. -Construct and interpret a variety of food chains, identifying producers, predators and preyIdentify that humans and some animals have skeletons and muscles for support, protection and movementDescribe the simple functions of the basic parts of the digestive system in humansIdentify the different types of teeth in humans and their simple functions.	-Compare and group together different kinds of rocks on the basis of their simple, physical propertiesRelate the simple physical properties of some rocks to their formation (igneous or sedimentary)Describe in simple terms how fossils are formed when things that have lived are trapped within sedimentary rockRecognise that soils are made from rocks and organic matter. -Describe the movement of the Earth relative to the Sun in the solar system -Describe the movement of the Moon relative to the Earth.	-Recognise that light is required in order to see things and that dark is the absence of lightNotice that light is reflected from surfacesRecognise that light from the Sun can be dangerous and that there are ways to protect your eyesRecognise that shadows are formed when the light from a light source is blocked by a solid objectFind patterns in the way that the size of a shadow changesIdentify how sounds are made, associating some of them with something vibrating.	-Compare and group materials together, according to whether they are solids, liquids or gasesObserve that some materials change state when they are heated or cooled, and measure the temperature at which this happens in degrees Celsius (°C), building on the teaching in mathematicsIdentify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.	-Identify common appliances that run on electricityConstruct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzersIdentify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a batteryRecognise 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	- Identify and describe the functions of different parts of flowering plants: roots, stem, leaves and flowersExplore the requirements of plants for life and growth (air, light, water, nutrients -Investigate the way in which water is transported within plants	-Recognise that living things can be grouped in a variety of waysExplore and use classification keys -Recognise that environments can change and that this can sometimes pose dangers to specific habitatsIdentify how plants and animals, including humans, resemble their parents in many featuresRecognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years agoIdentify how animals and plants are suited to and adapt to their environment in different ways.	-Compare how things move on different surfacesNotice that some forces need contact between two objects, but magnetic forces can act at a distanceObserve how magnets attract or repel each other and attract some materials and not othersCompare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materialsDescribe magnets as having two polesPredict whether two magnets will attract or repel

					-Recognise that vibrations from sounds travel through a medium to the ear.			with being good conductors.				each other, depending on which poles are facing.
Introducing Vocabulary	sugar diet r balanced evidence conclusion permanent decay d plaque gum skeleton bones	ncisors canines molars roots gums milk teeth disease brace filling back bone spine	natural stones pebbles gravel manufactured texture minerals sieve clay sandy	crystals properties permeable sediments sedimentary magma igneous lava metamorphic particles	light source artificial opaque transparent translucent sundial sphere	materials properties strong hard flexible soft transparent stiff liquids solids volume measuring cylinder ml ice freezing temperature thermometer degrees Celsius	brittle absorbent gold aluminium waterproof product standards solidifying reversable changes freezing point melting point separate sieve filtering dissolves undissolved solution thermal insulator/ conductor	bulb electricity circuit wires battery switches mains conduct electrical conductors electrical insulators pins cable component dim	organisms roots stems leaves trunks irrigation prediction nutrients fertilisers	organism reproduce grow habitats pond dipping fair test	prediction evidence	magnet attract magnetic steel iron recycled repelling compress springs forces force meter Newtons or N friction lubricant lubrication water resistance streamlined
Continuous Provision	and rock d	isplay			and garden, b	ooks, nutri	tion wall/d	upon current to different food go	roups, electri			
Retrieval practice	Materia (KS1)		Animals including humans		Rocks	Light and	d sound	Living things and their habitats	Electricity	Pla	ants	States of matter
Year 4 (Advancing/ Deep)	Animals Includin humans	ng	Roc	cks	Light & Sound	States o	f matter	Electricity	Plants		nings and nabitats	Forces and magnets
	-Identify that ani including humar need the right ty and amounts of nutrition, that the cannot make the own food and the nutrition from withey eat.	nimals, ans, different kinds of rocks on the types basis of their simple, physical propertiesRelate the simple physical properties of some rocks to their they get		-Recognise that light is required in order to see things and that dark is the absence of lightNotice that light is reflected from surfaces.	-Compare and materials toget according to w are solids, liqui -Observe that s materials chan when they are cooled and me temperature at happens in deg	her, hether they ds or gases. some ge state heated or asure the which this	-Identify common appliances that run on electricityConstruct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires,	- Identify and describe the functions of different parts of flowering plants: roots, stem, leaves and flowersExplore the requirements of	ways. -Explore and u keys	d in a variety of se classification at environments d that this can se dangers 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.	

	-Construct at interpret a verifood chains, identifying proper and and some are have skeleto muscles for sprotection are movementDescribe the functions of the parts of the construction are types of the thumansIdentify the types of the types of the thumans and simple fur	oducers, d prey. humans himals ns and support, id e simple he basic digestive different eeth in nd their	-Describe in simple terms how fossils are formed when things that have lived are trapped within sedimentary rockRecognise that soils are made from rocks and organic matter. -Describe the movement of the Earth relative to the Sun in the solar system -Describe the movement of the Moon relative to the Earth.		opaque strong gold transparent hard aluminiu translucent flexible waterpro sundial soft product sphere transparent standard		athematics. art played by tion and in the water esociate the oration with	bulbs, switches and buzzersIdentify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a batteryRecognise 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.	plants for life and growth (air, light, water, nutrients -Investigate the way in which water is transported within plants	-Identify how pla animals, includir resemble their p many features. -Recognise that have changed of that fossils proviabout living thin inhabited the Ea years ago. -Identify how plants are suite to their enviolities.	ng humans, parents in living things ever time and ide information gs that erth millions of animals and d to and adapt ronment in	-Observe how magnets attract or repel each other and attract some materials and not othersCompare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materialsDescribe magnets as having two polesPredict whether two magnets will attract or repel each other, depending on which poles are facing.
Consolidating Vocabulary	starch sugar diet balanced evidence conclusion permanent decay plaque gum skeleton bones joints muscles biceps triceps contracts relaxes food chain consumers predators prey	incisors canines molars roots gums milk teeth disease brace filling back bone spine	stones pebbles	properties permeable	light source artificial opaque transparent translucent sundial	properties strong hard flexible soft	absorbent	bulb electricity circuit wires battery switches mains conduct electrical conductors electrical insulators pins cable component dim	organisms roots stems leaves trunks irrigation prediction nutrients fertilisers	organism reproduce grow habitats pond dipping fair test	prediction evidence	magnet attract magnetic steel iron recycled repelling compress springs forces force meter Newtons or N friction lubricant lubrication water resistance streamlined

Continuous Provision	Resources: wind	dow shelf greenhouse /. doctor (looking after pl	and garden, b	·	ifferent food g	groups, electri	•	·
Retrieval Practice	Forces and magnets	Animals including humans	Rocks	Light and sound	Living things and their habitats	Electricity	Plants	States of matter



Science long term plan Milestone 3 / Upper KS2



	4 weeks	5 weeks	4 weeks	4 weeks	4 weeks	4 weeks	5 weeks	4 weeks
Year 5 (Basic)	Animals, Including humans	Light & Sound	Forces	Living things and their habitats	Earth and Space	Electricity	Evolution and inheritance	Properties and changes of materials
	-Describe the changes as humans develop to old ageIdentify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and bloodRecognise the importance of diet, exercise, drugs and lifestyle on the way the human body functionsDescribe the ways in which nutrients and water are transported within animals, including humansRelate knowledge of plants to studies of evolution and inheritanceRelate knowledge of plants to studies of all living things.	-Understand that light appears to travel in straight linesUse the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eyesUse the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them, and to predict the size of shadows when the position of the light source changesExplain that we see things because light travels from light sources to our eyes or from light sources to our eyesFind patterns between the pitch of a sound and features of the object that produced itFind patterns between the volume of a sound	-Describe magnets as having two poles -Predict whether two magnets will attract or repel each other, depending on which poles are facingExplain that unsupported objects fall towards the Earth because of the force of Gravity acting between the Earth and the falling objectIdentify the effect of drag forces such as air resistance, water resistance and friction that act between moving surfacesDescribe, in terms of drag forces, why moving objects	-Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird -Describe the life process of reproduction in some plants and animalsDescribe how living things are classified into broad groups according to common observable characteristicsGive reasons for classifying plants and animals based on specific characteristics.	-Describe the movement of the Earth relative to the Sun in the solar systemDescribe the movement of the Moon relative to the EarthDescribe the Sun, Earth and Moon as approximately spherical bodiesUse the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky.	-Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuitCompare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switchesUse recognised symbols when representing a simple circuit in a diagram.	-Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years agoRecognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parentsIdentify how animals and plants are adapted to suit their environment in different ways and how that adaptation may lead to evolution.	-Compare and group together everyday materials based on evidence from comparative and fair tests, including their hardness, solubility, conductivity (electrical and thermal), and response to magnetsUnderstand how some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solutionUse knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporatingGive reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plasticDemonstrate that dissolving, mixing and changes of state are reversible changesExplain that some changes result in the formation of new materials, and that this

				itRecognise that sounds get fainter as the distance from the sound source increases.		itRecognise that sounds get fainter as the distance from the sound source increases. to slow Understand that force and motion can be transferred through mechanical devices such as gears, pulleys, levers and springs -Understand that somemechanisms including levers, pulleys and gears, allow a smaller force to have a greater effect. to slow Understand that force and motion can be transferred through mechanical devices such as gears, pulleys, levers and springs -Understand that force and motion can be transferred through mechanical devices such as gears, pulleys, and gears, allow a smaller force to have a greater effect.		Understand that force and motion can be transferred through mechanical devices such as gears, pulleys, levers and springs. -Understand that somemechanisms, including levers, pulleys and gears, allow a smaller force to have a							kind of change reversible, incl changes assoc burning, oxidis action of acid of bicarbonate of	uding ciated with ation and the on
Introducing Vocabulary	fat carbohydrates sugar starch proteins fibre vitamins minerals calcium diet food groups balanced diet scurvy muscles bones contracts triceps	theory heart organ ribs contracts heartheat arteries veins blood vessels pulse pulse rate relaxes medicines side effects addictive	beats per minute factors fair test prediction coronary arteries hear bypass heart disease pulse rate nicotine tar lung cancer illegal	vibrates larynx vocal cords vibration gas solids materials speed absorb ear plugs ear defenders ear protection ear canal ear drum ear bones auditory nerves	cochlea impulses pitch air column wind instruments image reflect solar eclipse lunar eclipse partial eclipse	forces friction force meter Newtons N weight gravity balanced stationary upthrust unbalance air resistance light source transparent shadow opaque translucent	prediction fertilisers nutrients key disperse food chain producers consumers gills herbivores carnivores predator prey pond dipping	virus bacteria fungi tooth decay food poisoning compost heap landfill sites yeast	Earth sphere observations evidence axis sundials dial year orbit North Pole Phases of the moon	components circuit battery electrical conductor electrical insulator buzzer mains electricity voltage electric shock recharged alternator solar cells wind turbine symbol cell	fruits flowering plants seeds reproduce germination seedling nutrients organs pollen grains stigma pollination nectar pollen tube style ovary ovum fertilisation runners	gestation time pregnancy extinct breed	properties solid melts liquid gases evidence grams balance observation predict matter states of matter helium nitrogen pigment vapour condensed condensation states	theory argon neon water vapour evaporation carbon monoxide natural gas volume natural gas evaporated evaporation water vapour melt freeze boiling water cycle		
Continuous Provision	Selection	of resc	nurces	for childr	en to devis	Homework					eart rate r	monitors	magnifiers			
	Selection of resources for children to d magnets. springs Activities: separating salt/sand and gra										icait rate i	nomiors,	magniners,			
Retrieval practice	States of matter Anima includir humar				uding	Light & Sound	For	ces	Living things and their habitats	Earth and Space	Elect	ricity	Evolution inheri			

Year 6	Animals, Including	Light & Sound	Forces	Living things	Earth	Electricity	Evolution and	Properties and
(Advancing/ Deep)	humans			and their habitats	and Space		inheritance	changes of materials
	-Describe the changes as humans develop to old ageIdentify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and bloodRecognise the importance of diet, exercise, drugs and lifestyle on the way the human body functionsDescribe the ways in which nutrients and water are transported within animals, including humansRelate knowledge of plants to studies of evolution and inheritanceRelate knowledge of plants to studies of all living things.	-Understand that light appears to travel in straight linesUse the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eyesUse the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them, and to predict the size of shadows when the position of the light source changesExplain that we see things because light travels from light sources to our eyes or from light sources to our eyes or from light sources to objects and then to our eyesFind patterns between the pitch of a sound and features of the object that produced itFind patterns between the volume of a sound and the strength of the vibrations that produced itRecognise that sounds get fainter as the distance from the sound source increases.	-Describe magnets as having two poles -Predict whether two magnets will attract or repel each other, depending on which poles are facingExplain that unsupported objects fall towards the Earth because of the force of Gravity acting between the Earth and the falling objectIdentify the effect of drag forces such as air resistance, water resistance, water resistance and friction that act between moving surfacesDescribe, in terms of drag forces, why moving objects that are not driven tend to slow Understand that force and motion can be transferred through mechanical devices such as gears, pulleys, levers and springsUnderstand that somemechanisms, including levers, pulleys and gears, allow a smaller force to have a	-Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird -Describe the life process of reproduction in some plants and animalsDescribe how living things are classified into broad groups according to common observable characteristicsGive reasons for classifying plants and animals based on specific characteristics.	-Describe the movement of the Earth relative to the Sun in the solar systemDescribe the movement of the Moon relative to the EarthDescribe the Sun, Earth and Moon as approximately spherical bodiesUse the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky.	-Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuitCompare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switchesUse recognised symbols when representing a simple circuit in a diagram.	-Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years agoRecognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parentsIdentify how animals and plants are adapted to suit their environment in different ways and how that adaptation may lead to evolution.	together everyday materials based on evidence from comparative and fair tests, including their hardness, solubility, conductivity (electrical and thermal), and response to magnets. -Understand how 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 and evaporating. -Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic. -Demonstrate that dissolving, mixing and changes of state are reversible changes. -Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning, oxidisation and the action of acid on bicarbonate of soda.

force to have a greater effect.

Consolidating Vocabulary	fat carbohydrates sugar starch proteins fibre vitamins minerals calcium diet food groups balanced diet scurry muscles bones contracts triceps	theory heart organ ribs contracts heartbeat arteries veins blood vessels pulse pulse rate relaxes medicines side effects addictive	beats per minute factors fair test prediction coronary arteries hear bypass heart disease pulse rate nicotine tar lung cancer illegal	vibrates larynx vocal cords vibration gas solids materials speed absorb ear plugs ear defenders ear protection ear canal ear drum ear bones auditory nerves	cochlea impulses pitch air column wind instruments image reflect solar eclipse lunar eclipse partial eclipse	forces friction force meter Newtons N weight gravity balanced stationary upthrust unbalance air resistance light source transparent shadow opaque translucent	prediction fertilisers nutrients key disperse food chain producers consumers gills herbivores carnivores predator prey pond dipping	virus bacteria fungi tooth decay food poisoning compost heap landfill sites yeast	Earth sphere observations evidence axis sundials dial year orbit North Pole Phases of the moon	components circuit battery electrical conductor electrical insulator buzzer mains electricity voltage electric shock recharged alternator solar cells wind turbine symbol cell	fruits flowering plants seeds reproduce germination seedling nutrients organs pollen grains stigma pollination nectar pollen tube style ovary ovum fertilisation runners	gestation time pregnancy extinct breed	properties solid melts liquid gases evidence grams balance observation predict matter states of matter helium nitrogen pigment vapour condensed condensation states	theory argon neon water vapour evaporation carbon monoxide natural gas volume natural gas evaporated evaporation water vapour melt freeze boiling water cycle
Continuous Provision	magnets springs	S .				Homework se their own ex	periments	s e.g. Ba		s, funnels, h	eart rate r	monitors,	magnifiers	
Retrieval Practice	State	s of ma	atter	inclu	mals uding nans	Light & Sound	Ford	ces	Living things and their habitats	Earth and Space	Elect	ricity	Evolution inheri	