



AUTUMN	KS1		LKS2		UKS2	
Ž						
1 Living thing and t habit	<ul><li>explore and compare the differences between things that</li></ul>	that are living, dead and never lived Can name a range of animals and plants that live in a habitat and micro-habitats that they have studied Can talk about how the features of these animals and plants make them suitable to the habitat Can talk about what the animals eat in a habitat and how the plants provide shelter for them Can construct a food chain that starts with a plant and has the arrows pointing in the correct direction  Can sort into living, dead and never lived Can give key features that mean the animal or plant is suited to its micro-habitat Using a food chain can explain what animals eat Can explain in simple terms why an animal or plant is suited to a habitat e.g. the caterpillar cannot live under the soil like a worm as it needs fresh leaves to eat; the seaweed we found on the beach	<ul> <li>identify common appliances that run on electricity</li> <li>construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers</li> <li>identify 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 battery</li> <li>recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit</li> <li>recognise some common conductors and insulators, and associate metals with being good conductors.</li> <li>Key Learning</li> <li>Many household devices and appliances run on electricity. Some plug in to the mains and others run on batteries. An electrical circuit</li> </ul>	conductors Can name materials that are insulators  Can communicate structures of circuits using drawings which show how the components are connected Use classification evidence to identify that metals are good conductors and non-metals are insulators Can incorporate a switch into a circuit to turn it on and off Can connect a range of different switches identifying the parts that are insulators and conductors Can add a circuit with a switch to a DT project and can demonstrate how it works Can give reasons for choice of materials for making different parts of a switch Can describe how their switch works	<ul> <li>associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit</li> <li>compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches</li> <li>use recognised symbols when representing a simple circuit in a diagram</li> <li>Key Learning</li> <li>Adding more cells to a complete circuit will make a bulb brighter, a motor spin faster or a buzzer make a louder sound. If you use a battery with a higher voltage, the same thing happens. Adding more bulbs to a circuit will make each bulb less bright. Using more motors or buzzers, each motor will spin more slowly and each buzzer will be quieter. Turning a switch off (open) breaks a circuit so the circuit is not</li> </ul>	such as the brightness of bulbs can be changed by increasing or decreasing the number of cells or using cells of different voltages  Can draw circuit diagrams of a range of simple series circuits using recognised symbols  Can incorporate a switch into a circuit to turn it on and off  Can change cells and components in a circuit to achieve a specific effect Can communicate structures of





been alive (again ignoring that plastics are made of fossil fuels).

Animals and plants live in a habitat to which they are suited which means that animals have suitable features that help them move and find food and plants have suitable features that help them to grow well. The habitat provides the basic needs of the animals and plants – shelter, food and water. Within a habitat there are different micro-habitats e.g. in a woodland – in the leaf litter, on the bark of trees, on the leaves. These micro-habitats have different conditions e.g. light or dark, damp or dry. These conditions affect what plants and animals live there. The plants and animals in a habitat depend on each other for food and shelter etc. The way that animals obtain their food from plants and other animals can be shown in a food chain.

#### Key vocabulary:

and research

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 microhabitats e.g. under logs, in bushes etc.

#### Applying (including enquiries)

Explore the outside environment regularly to find objects that are living, dead and have never lived
Classify objects found in the local environment
Observe animals and plants carefully, drawing and labelling diagrams
Create simple food chains for a familiar local habitat from first hand observation

Create simple food chains from information

given e.g. in picture books (Gruffalo etc.)

Metals are good conductors so they can be used as wires in a circuit. Non-metallic solids are insulators except for graphite (pencil lead). Water, if not completely pure, also conducts electricity

#### Key Vocabulary

Electricity, electrical appliance/device, mains, plug, electrical circuit, complete circuit, component, cell, battery, positive, negative, connect/connections, loose connection, short circuit, crocodile clip, bulb, switch, buzzer, motor, conductor, insulator, metal, non-metal, symbol

N.B. Children in year 4 do not ned to use standard symbols as this is taught in year 6

#### Applying (including enquiries)

Construct a range of circuits Explore which materials can be used instead of wires to make a circuit Classify the materials that were suitable/not suitable for wires Explore how to connect a range of different switches and investigate how they function in different ways Choose switches to add to circuits to solve particular problems such as a pressure switch for a burglar alarm Apply their knowledge of conductors and insulators to design and make different types of switch Make circuits that can be controlled as part of a D&T project

N.B. Children should be given one

component at a time to add to circuits.

#### Key Vocabulary

Circuit, complete circuit, circuit diagram, circuit symbol, cell, battery, bulb, buzzer, motor, switch, voltage

NB Children do not need to understand what voltage is but will use volts and voltage to describe different batteries. The words cells and batteries are now used interchangeably

#### Applying (including enquiries)

Explain how a circuit operates to achieve particular operations, such as control the light for a torch with different brightnesses or make a motor go faster or slower Make circuits to solve particular problems such as a quiet and a loud burglar alarm Carry out fair tests exploring changes in circuits

Make circuits that can be controlled as part of a D&T project





2	KS1			LKS2	Can give examples of forces in everyday		UKS2	
everyday materials suitability materials, plastic, gla cardboard find control for the task. For the task for the task. For the task for the task. For the task for the task for the task. For the task for the task for the task. For the task for the task for the task for the task for the task. For the task for the	for particular uses but how the shapes of cts made from some can be changed by the bending, twisting and the made of one or more are chosen specifically have suitable properties or example, a water of plastic because it is lowing you to see the did waterproof so that it er. When choosing what ject from, the properties mpared with the he possible materials, ugh simple tests and vities. A material can be ferent purposes and an made of different	make a link between the droperties and a particular use Can label a picture or diagram of an object made from different materials For a given object can identify what properties a suitable material needs to have Whilst changing the shape of an object can describe the action used Can use the words flexible and/or stretchy to describe materials that can be changed in shape and stiff and/or rigid for those that cannot Can recognise that a material may come in different forms which have different properties  Can sort materials using a range of properties Can explain using the key properties why a material is suitable or not suitable for a purpose	and Magnets	<ul> <li>National Curriculum objectives</li> <li>compare how things move on different surfaces</li> <li>notice that some forces need contact between two objects, but magnetic forces can act at a distance</li> <li>observe how magnets attract or repel each other and attract some materials and not others</li> <li>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</li> <li>describe magnets as having two poles</li> <li>predict whether two magnets will attract or repel each other, depending on which poles are facing</li> <li>Key Learning</li> <li>A force is a push or a pull. When an object moves on a surface, the texture of the surface and the object affect how it moves. It may help the object to move better or it may hinder its movement e.g. ice skater compared to walking on ice in normal shoes.</li> <li>A magnet attracts magnetic material. Iron and nickel and other materials containing these e.g. stainless steel, are magnetic. The strongest parts of a magnet are the poles. Magnets have two poles — a north pole and a south pole. If two like poles e.g. two north poles, are brought together</li> </ul>	life Can give examples of objects moving differently on different surfaces Can name a range of types of magnets and show how the poles attract and repel Can draw diagrams using arrows to show the attraction and repulsion between the poles of magnets  Can use their results to describe how objects move on different surfaces Can use their results to make predictions for further tests e.g. it will spin for longer on this surface than that, but not as long as it spun on that surface Can use classification evidence to identify that some metals but not all are magnetic Through their exploration they can show how like poles repel and unlike poles attract and name unmarked poles Can use test data to rank magnets	and magnets	<ul> <li>explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object</li> <li>identify the effects of air resistance, water resistance and friction, that act between moving surfaces</li> <li>recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.</li> <li>Key Learning</li> <li>A force causes an object to start moving, stop moving, speed up, slow down or</li> </ul>	investigations in terms of the force showing a good understanding the as the object tries to move through the water or air or across the surface, the particles in the water air or on the surface slow it down Can demonstrate clearly the effect of using levers, pulleys and gears





squashing, stretching, rolling, pressing etc. This can be a property of the material or depend on how the material has been processed e.g. thickness.

#### Key vocabulary

Names of materials – increased range from year 1
Properties of materials - as for year 1 plus opaque, transparent and translucent, reflective, non-reflective, flexible, rigid
Shape, push/pushing, pull/puling, twist/twisting, squash/squashing.
Bend/bending, stretch/stretching

#### Applying (including enquiries)

Classify materials
Make suggestions about alternative
materials for a purpose that are both
suitable and unsuitable
Test the properties of materials for
particular uses e.g. compare the
stretchiness of fabrics to select the
most appropriate for Elastigirl's
costume, test materials for
waterproofness to select the most
appropriate for a rain hat

testing a material for a particular property
Can use their test evidence to select appropriate material for a purpose e.g. Which material is the best for a rain

they will push away from each other – repel. If two unlike poles e.g. a north and south, are brought together they will pull together – attract. For some forces to act there must be contact e.g. a hand opening a door, the wind pushing the trees. Some forces can act at a distance e.g. magnetism. The magnet does not need to touch the object that it attracts.

#### Key vocabulary:

Force, push, pull, twist, contact force, non-contact force, magnetic force, magnet, strength, bar magnet, ring magnet, button magnet, horseshoe magnet, attract, repel, magnetic material, metal, iron, steel, poles, north pole, south pole

#### **Applying (including enquiries)**

Carry out investigations to explore how objects move on different surfaces e.g. spinning tops/coins, rolling balls/cars, clockwork toys, soles of shoes etc.

Explore what materials are attracted to a magnet Classify materials according to whether they are magnetic

Explore the way that magnets behave in relation to each other

Use a marked magnet to find the unmarked poles on other types of magnets

Explore how magnets work at a distance e.g. through the table, in water, jumping paper clip up off the table

Devise an investigation to test the strength of magnets

A mechanism is a device that allows a small force to be increased to a larger force. The pay back is that it requires a greater movement. The small force moves a long distance and the resulting large force moves a small distance, e.g. a crowbar or bottle top remover. Pulleys, levers and gears are all mechanisms, also known as simple machines.

#### Key vocabulary

Force, gravity, Earth, air resistance, water resistance, friction, mechanisms, simple machines, levers, pulleys, gears

### Applying (including enquiries)

Investigate the effect of friction in a range of contexts e.g. trainers, bath mats, mats for a helter-skelter

Investigate the effects of water resistance in a range of contexts e.g. dropping shapes through water, pulling shapes e.g. boats along the surface of water

Investigate the effects of air resistance in a range of contexts e.g. parachutes, spinners, sails on boats

Explore how levers, pulleys and gears work Make a product that involves a lever, pulley or gear

Create a timer that uses gravity to move a ball

Research how the work of scientists such as Galileo Galilei and Isaac Newton helped to develop the theory of gravitation





Spring	KS1	LKS2	UKS2
	Animals Year 1  identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals  identify and name a variety of common animals that are carnivores, herbivores and omnivores  Key Learning Animals vary in many ways having different structures e.g. wings, tails, ears etc. They also have different skin coverings e.g. scales, feathers, hair. These key features can be used to identify them.  Animals eat certain things - some eat other animals, some eat plants, some eat both plants and animals.  Key vocabulary  Head, body, eyes, ears, mouth, teeth, leg, tail, wing, claw, fin, scales, feathers, fur, beak, paws, hooves Names of animals experienced firsthand from each vertebrate group N.B. The children need to be able to name and identify a range of animals in each group e.g. name specific birds and fish. They do not need to use the	Rocks and soils  Can name some types of rock and give physical features of each  compare and group together different kinds of rocks on the basis of their appearance and simple physical properties  describe in simple terms how fossils are formed when things that have lived are trapped within rock  recognise that soils are made from rocks and organic matter.  Key Learning  Rock is a naturally occurring material. There are different types of rock e.g. sandstone, limestone, slate etc. which have different properties. Rocks can be hard or soft. They have different sizes of grain or crystal. They may absorb water. Rocks can be different shapes and sizes (stones, pebbles, boulders). Soils are made up of pieces of ground down rock which may be mixed with plant and animal material (organic matter). The type of rock, size of rock piece and the amount of organic matter affect the property of the soil.  Some rocks contain fossils. Fossils were formed millions of years ago. When plants and animals died, they fell to the seabed. They became covered and squashed by other material. Over time the dissolving animal and plant matter is replaced by minerals from the water.  Key vocabulary:  Rock, stone, pebble, boulder, grain, crystals, layers, hard, soft, texture, absorb water, soil, fossil, marble, chalk, granite, sandstone, slate, soil, peat, sandy/chalk/clay soil of how fossils are formed e.g. in role play, comic	<ul> <li>describe the movement of the Moon relative to the Earth</li> <li>describe the Sun, Earth and Moon as approximately spherical bodies</li> <li>use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.</li> <li>Key Learning</li> <li>Can explain the movement of the Earth and Moon Can show using diagrams the rotation of the Earth and how this causes day and night</li> <li>Can explain the movement of the Earth and how this causes day and night</li> <li>Can explain the movement of the Earth and how this causes day and night</li> <li>Can explain the movement of the Earth and how this causes day and night</li> <li>Can explain the movement of the Earth and how this causes day and night</li> <li>Can explain the movement of the Earth and how this causes day and night</li> <li>Can explain the movement of the Earth and how this causes day and night</li> <li>Can explain the movement of the Earth and Moon</li> <li>Can show using diagrams the rotation of the Earth and how this causes day and night</li> <li>Can explain what causes day and night</li> <li>Can use the model to explain how the Earth moves in relation to the Sun and the moon moves in relation to the Earth</li> <li>Can demonstrate and explain verbally how day and night</li> <li>Can explain evidence gathered about the position of shadows in term of the movement of the Earth. It takes about 28 days to complete its orbit.</li> <li>The Sun. Earth and Moon are approximately</li> <li>Can explain the movement of the Earth and how this causes day and night</li> <li>Can use the model to explain how the Earth moves in relation to the Earth</li> <li>Can explain the movement of the Earth and how this causes day and night</li> <li>Can explain the Totation of the Earth and how the Earth and how the causes day and night</li> </ul>





	terms mammal, reptiles etc. or know the key characteristics of each, although they will probably be able to identify birds and fish, based on their characteristics.  The children also do not need to use the words carnivore, herbivore and omnivore. If they do, ensure that they understand that carnivores eat other animals not just meat.  Applying (including enquiries)  Make first hand close observations of animals from each of the groups  Compare two animals from the same or different group  Classify animals using a range of features  Identify animals by matching them to named images  Classify animals according to what they eat			Applying (including enquiries) Observe rocks closely Classify rocks in a range of ways based on their appearance Devise a test to investigate the hardness of a range of rocks Devise a test to investigate how much water different rocks absorb Observe how rocks change over time e.g. gravestones or old building Research using secondary sources how fossils are formed Observe soils closely Classify soils in a range of ways based on their appearance Devise a test to investigate the water retention of soils Observe how soil can be separated through sedimentation Research the work of Mary Anning			Venus, Mars, Uranus, Neptune) spherical, solar system, rotates, star, orbit, planets  Applying (including enquiries)	Can explain verbally using a model why we have time zones Can describe the arguments and evidence used by scientists in the past
	KS1			LKS2			UKS2	
2 Animals		Can describe how animals	Animals	National Curriculum Objectives	Can name the nutrients	Animals	National Curriculum Objectives	Can explain the changes that
including humans (Y2 objectives)	<ul> <li>notice that animals, including humans, have offspring which grow into adults</li> <li>find out about and describe the basic needs of animals, including humans, for survival (water, food and air)</li> </ul>	including humans have offspring which grow into adults, using the appropriate names for the stages Can state the basic needs of animals, including humans, for survival. Can state the importance for humans of exercise, eating the	including humans (y3 objective s)	identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from	found in food  Can state that to be healthy we need to eat the right types of food to give us the correct amount of these nutrients	including humans (year 5 objectives)	<ul> <li>describe the changes as humans develop</li> </ul>	takes place in boys and girls





right amounts of different types of food, and hygiene.

#### **Key Learning**

Animals including humans have offspring which grow into adults. In humans and some animals these offspring will be young, such as babies diagrams, the life cycle of or kittens, that grow into adults. In other animals, such as chickens or insects, there may be eggs laid that hatch to young or other stages which cycle book for a younger child then grow to adults. The young of some animals do not look like their parents e.g. tadpoles.

All animals including humans have basic needs of feeding, drinking and breathing that must be satisfied in order to survive, and to grow into healthy adults they also need the right amounts and types of food and health might be affected by exercise. Good hygiene is also important in preventing infections and illnesses.

#### Key vocabulary:

Offspring, reproduction, growth, child, young/old stages (examples chick/hen, baby/child/adult, caterpillar/butterfly), exercise, heartbeat, breathing, hygiene, germs, disease, food types (examples – meat, fish, vegetables, bread, rice, pasta) Applying (including enquiries) Ask people questions and use secondary sources to find out about the life cycles of some pond animals

right amounts of different types of food and hygiene. Can name foods in each section of the Eatwell guide

Can describe, including using some animals, including humans, and their growth to adults e.g. by creating a life Can measure/observe how animals, including humans,

Show what they know about looking after a baby/animal by creating a parenting/pet owners' guide Derek Explain how development and differing conditions and needs being met/not met.

Animals, unlike plants which can make their own food, need to eat in order to get the nutrients they need. Food that make up their contains a range of different nutrients that are needed by skeleton giving examples the body to stay healthy - carbohydrates including sugars, that support, help them protein, vitamins, minerals, fibre, fat, sugars, water. A piece of food will often provide a range of nutrients.

Humans and some other animals have skeletons and muscles which help them move and provide protection and support

#### Key vocabulary:

Nutrition, nutrients, carbohydrates, sugars, protein, vitamins, minerals, fibre, fat, water, skeleton, bones, muscles, support, protect, move, skull, ribs, spine, muscles, joints

### Applying (including enquiries)

Classify food in a range of ways Use food labels to explore the nutritional content of a range of food items

Use secondary sources to find out they types of food that contain the different nutrients

Use food labels to answer enquiry questions e.g. How much fat do different types of pizza contain? How much sugar is in soft drinks?

Plan a daily diet contain a good balance of nutrients Explore the nutrients contained in fast food Use secondary sources to research the parts and functions of the skeleton

Investigate pattern seeking questions such as

- Can people with longer legs run faster?
- Can people with bigger hands catch a ball better? Compare, contrast and classify skeletons of different animals

Can name some bones move or provide protection

Can describe how muscles and joints help them to move

Can classify food into those that are high or low in particular nutrients Can answer their questions about nutrients in food based on their gathered evidence Can talk about the nutrient content of their daily plan Use their data to look for patterns (or lack of) when answering their enquiry question Can give similarities e.g. they all have joints to help the animal move, and differences between skeletons

puberty, a child's body changes and develops primary and secondary sexual characteristics. This enables the adult to reproduce.

This needs to be taught alongside PSHE Useful guidance can be obtained at: http://www.ase.org.uk/news/aseviews/teac hing-about-puberty/ http://www.ase.org.uk/documents/2016ioint-statement-on-reproduction/

#### Key vocabulary

Puberty: the vocabulary to describe sexual characteristics

#### Applying (including enquiries)

This unit is taught through direct instruction due to its sensitive nature





Observe animals growing over a			
period of time e.g. chicks, caterpillars,			
a baby <mark>(caterpillars released as</mark>			
<mark>butterflies)</mark>			
Ask questions of a parent about how			
they look after their baby			
Ask pet owners questions about how			
they look after their pet <mark>parent</mark>			
<mark>visitors</mark>			
Explore the effect of exercise on their			
bodies			
Classify food in a range of ways,			
including using the Eatwell guide			
Investigate washing hands, using			
glitter gel			
Pitter Per			

SUMMER KS1		LKS2		UKS2	
objectives)  • 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.	Can name trees and other plants that they see regularly Can describe some of the key features of these trees and plants e.g. the shape of the leaves, the colour of the flower/blossom Can point out trees which lost their leaves and those that kept them the whole year Can point to and name the parts of a plant, recognising that they are not always the same e.g.	<ul> <li>flowering plants: roots, stem/trunk, leaves and flowers</li> <li>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</li> <li>investigate the way in which water is transported within         plants</li> <li>explore the part that flowers play in the life cycle of         flowering plants, including pollination, seed formation</li> </ul>	things and their habitats (y6 objectives)	<ul> <li>describe how living things are classified into broad groups according to common observable characteristics and based on</li> </ul>	Can give examples of animals in the five vertebrate groups and some of the invertebrate groups Can give the key characteristics of the five vertebrate groups and some invertebrate groups Can compare the characteristics of animals in different groups





Growing locally there will be a vast array of plants which all have green specific names. These can be identified by looking at the key characteristics of the plant. Plants using similarities and differences have common parts but they vary | Can use simple charts etc. to between the different types of plants. Some trees keep their leaves all year whilst other trees drop their leaves during autumn and grow them again during spring.

#### Key vocabulary

Leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud Names of trees in the local area

### (complete names for your school

Names of garden and wild flowering plants in the local area Complete

#### Applying (including enquiries)

Make close observations of leaves, seeds, flowers etc. Compare two leaves, seeds, flowers etc. Classify leaves, seeds, flowers etc. using a range of characteristics Identify plants by matching them to named images Make observations of how plants change over a period of time When further afield, spot plants that are the same as those in the

leaves and stems may not be

Can sort and group parts of plants identify plants Can collect information on features that change during the Can use photographs to talk about how plants change over

Many plants, but not all, have roots, stems/trunks, leaves and flowers/blossom. The roots absorb water and nutrients from the soil and anchor the plant in place. The stem transports water and nutrients/minerals around the plant and holds the leaves and flowers up in the air to enhance photosynthesis, pollination and seed dispersal. The leaves use sunlight and water to produce the plant's food. Some plants produce flowers which enable the plant to reproduce. of seeds to decide on Pollen, which is produced by the male part of the flower, is their method of dispersal transferred to the female part of other flowers (pollination). This forms seeds, sometimes contained in berries or fruits which are then dispersed in different ways. Different plants require different conditions for germination and growth

#### Key vocabulary

Photosynthesis, pollen, insect/wind pollination, seed formation, seed dispersal – wind dispersal, animal dispersal, and seed dispersal water dispersal

#### Applying (including enquiries)

Observe what happens to plants over time when the leaves or roots are removed

Observe the effect of putting cut white carnations or celery in coloured water

Investigate what happens to plants when they are put in different conditions e.g. in darkness, in the cold, deprived of air, different types of soil, different fertilisers, varying amount of space

Spot flowers, seeds, berries and fruits outside throughout the year (nature walks

Observe flowers carefully to identify the pollen Observe flowers being visited by pollinators e.g. bees and butterflies in the summer Observe seeds being blown from the trees e.g. sycamore

Research different types of seed dispersal

Can explain observations made during investigations

Can look at the features

Can draw and label a diagram of their created flowering plant to show its parts, their role and the method of pollination

Living things can be formally grouped according to characteristics. Plants and animals are two main groups but there are other livings things that do not fit into these groups e.g. micro-organisms such as bacteria and yeast, and toadstools and mushrooms. Plants can make their own food whereas animals cannot.

Animals can be divided into two main groups —for plants and animals those that have backbones (vertebrates) and those that do not (invertebrates). Vertebrates characteristics that explain can be divided into five small groups – fish, amphibians, reptiles, birds and mammals. Each group has common characteristics. Invertebrates can be divided into a number of groups including insects, spiders, snails and worms.

Plants can be divided broadly into two main groups – flowering plants and non-flowering

#### Key vocabulary:

Vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, insects, spiders, snails, worms, flowering and non-flowering

### Applying (including enquiries)

Use secondary sources to learn about the formal classification system devised by Carl Linnaeus and why it is important Use first hand observation to identify characteristics shared by the animals in a group (use range of insects or arachnids found on school site)

Can give examples of flowering and non-flowering

Can use classification materials to identify unknown plants and animals Can create classification keys Can give a number of why an animal belongs to a particular group





	local area studied regularly, describing the key features that helped them	d	Classify seeds in a range of ways including by how they are dispersed Create a new species of flowering plant	Use secondary sources to research the characteristics of animals that belong to a group Use information about the characteristics of an unknown animal or plant to assign it to a group Classify plants and animals presenting this in a range of ways – Venn diagrams, Carroll diagrams and keys Create an imaginary animal which has features from one or more groups	
	KS1		LKS2	UKS2	
changes (Summer)	<ul> <li>observe changes across the four seasons</li> <li>observe and describe weather associated with Summer and how day length varies.</li> <li>Key Learning In the UK, the day length is longest at mid-summer (about 16</li> <li>identify when i occur. Can describe we seasons over a Can describe of Can describe of Change through</li> </ul>	lays as being longer e summer and winter. other features that th the year  ence gathered to eneral types of hanges in day	Spare half term to catch up.  Check progress against Applying (including enquiries) objectives and plan investigations to meet gaps.	Spare half term to catch up.  Check progress against Applying (including enquiries) objectives and plan investigations to meet gaps.	





The weather also changes with	Use their evidence to describe
the seasons. In the UK, it is usually	
	surroundings, themselves,
	animals, plants that change over
	the seasons
	Demonstrate their knowledge in
	different ways e.g. making a
	weather forecast video, writing
and plant growth, leaves on trees	
	seasonal artwork
people.	Seasonal artwork
Key vocabulary	
Weather (sunny, rainy, windy,	
snowy etc.), seasons (Winter,	
Summer, Spring, Autumn), sun,	
sunrise, sunset, day length	
Applying (including enquiries)	
Collect information about the	
weather regularly throughout the	
year	
Present this information in table	
and charts to compare the	
weather across the seasons	
Collect information, regularly	
throughout the year, of features	
that change with the seasons e.g.	
plants, animals, humans	
Present this information in	
different ways to compare the	
seasons	
Gather data about day length	
regularly throughout the year and	
present this to compare the	
seasons	





Children will observe the		
frequency of animals/minibeasts		
in our outdoor areas (pond,		
moorland, forest, river) at		
different points in the season. This		
data can be shared within COGL.		
Through our Garden School		
curriculum, children will learn that		
different vegetables are planted at		
different times of the year.		