St Edward's CE Primary School - Long Term Plan

SCIENCE

Year	Topic	National Curriculum Content	Key Knowledge and vocabulary
			Year 1
asking observ perfori identif using t	simple questions ing closely, using ming simple tests ying and classifying heir observations		t ways
Year 1	Plants (Percy the Park Keeper)	 identify and name a variety of common wild and garden plants, including deciduous and evergree trees identify and describe the basic structure of a variof common flowering plants, including trees 	Names of trees in the local area Names of garden and wild flowering plants in the local area
Year 1	Animals (On Safari)	 identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals identify and name a variety of common animals are carnivores, herbivores and omnivores describe and compare the structure of a variety common animals (fish, amphibians, reptiles, bird mammals, including pets) 	Compare two animals from the same or different group Classify animals using a range of features

Year 1	Humans	identify, name, draw and label the basic parts of the	 End Points: Understand that animals vary in many ways and have different features. Can name some animals that belong to each group. Understand animals eat certain things and are carnivores, herbivores or omnivores. Know that humans and insects are not animals Senses, touch, see, smell, taste, hear, fingers, skin, eyes, nose, ear and tongue
	(All about me)	human body and say which part of the body is associated with each sense	Make first hand close observations of parts of the body e.g. hands, eyes Compare two people Take measurements of parts of their body Look for patterns between people e.g. Do people with big hands have big feet? Classify people according to their features Investigate human senses End Points: • know that humans and insects are animals • Know that humans have 5 senses and can name them and the parts of the body linked to each sense.
Year 1	Everyday Materials (Chocolate)	 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 describe the simple physical properties of a variety of everyday materials compare and group together a variety of everyday materials on the basis of their simple physical properties 	card/cardboard, rubber, wool, clay, hard, soft, stretchy, stiff, bendy, floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, see through, not see through Classify objects made of one material in different ways e.g. a group of object made of metal
Year 1	Seasonal Change	 observe changes across the four seasons observe and describe weather associated with the seasons and how day length varies 	Weather (sunny, rainy, windy, snowy etc.), seasons (Winter, Summer, Spring, Autumn), sun, sunrise, sunset, day length 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 Gather data about day length regularly throughout the year and present this to compare the seasons End Points: Can name the four seasons and knows the weather changes in the seasons (e.g. colder and rainier in the winter and hotter and drier in the summer). Knows that a day is longer in the summer and shorter in the winter.

		Year 2
Year 2	Animals including Humans (Growth and Survival)	 Notice that animals, including humans, have offspring which grow into adults Find out about and describe the basic needs of animals, including humans, for survival (water, food and air) Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. Animals including humans have offspring which grow into adults. In other animals, such as chickens or insects, there may be eggs laid that hatch to young or other stages which then grow to adults. The young of some animals do not look like their parents e.g. tadpoles. All animals including humans have offspring which grow into adults. In other animals, such as chickens or insects, there may be eggs laid that hatch to young or other stages which then grow to adults. The young of some animals do not look like their parents e.g. tadpoles. All animals including humans have offspring which grow into adults. In other animals, such as chickens or insects, there may be eggs laid that hatch to young or other stages which then grow to adults. The young of some animals do not look like their parents e.g. tadpoles. All animals including humans have offspring which grow into adults. In other 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 exercise. Good hygiene is also important in preventing infections and illnesses. 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) End Points: Know that animals, including humans, have offspring which grow into adults. Hon Points: Understand that all animals, i
Year 2	Plants	 Deserve 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. Identify and name a variety of plants and animals in their habitats, including micro-habitats Find plants and animals in their habitats, including micro-habitats Plants may grow from either seeds or bulbs. These then germinate and grow into seedlings which then continue to grow into mature plants. Seeds and bulbs need to be planted outside at particular times of the year and they will germinate and grow at different rates. Plants also need different amounts of water and space to grow well and stay healthy. End Points: Understand that plants may grow from either seeds or bulbs and that seeds and bulbs need to be planted outside at particular times of year and they will germinate and grow at different rates. Understand that some plants are better suited to growing in full sun and some grow better in partial or full shade. Plants also need different amounts of water and space to grow well and stay healthy.
Year 2	Usesof Everyday Materials	 Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, properties of materials - increased range from year 1 Properties of materials - as for year 1 plus opaque, transparent and translucent, reflective, non-reflective, flexible, rigid

		glass, brick, rock, paper and cardboard for particular uses	Shape, push/pushing, pull/puling, twist/twisting, squash/squashing. Bend/bending, stretch/stretching
		Find out how the shapes of solid objects made from	All objects are made of one or more materials that are chosen specifically because they have
		some materials can be changed by squashing,	suitable properties for the task.
		bending, twisting and stretching.	A material can be suitable for different purposes and an object can be made of different
			materials.
			Objects made of some materials can be changed in shape by bending, stretching, squashing
			and twisting.
			Classify materials Make suggestions about alternative materials for a purpose that are both suitable and
			unsuitable
			Test the properties of materials for particular
			End Points:
			Understand that objects are made from particular materials because of its properties
			and can give examples of an object and link the material it's made from and the object's
			use (eg. Plastic bottle – transparent so you can see the liquid inside it and waterproof).
			 Understand that a material can be suitable for different purposes and an object can be made of different materials.
			 Know that objects made of some materials can be changed in shape by bending,
			stretching, squashing and twisting.
Year 2	Living Things	Explore and compare the differences between things	Living, dead, never been alive, suited, suitable, basic needs, food, food chain, shelter,
	and their	that are living, dead and things that have never been	move, feed, names of local habitats e.g. pond, woodland etc., names of micro-habitats e.g.
	habitats	alive.	under logs, in bushes etc.
			All objects are either living, dead or have never been alive.
		Identify that most living things live in habitats to	Animals and plants live in a habitat to which they are suited
		which they are suited and describe how different habitats provide for the basic needs of different kinds	Animals and plants live in a habitat to which they are suited
		of animals and plants , and how they depend on each	The habitat provides the basic needs of the animals and plants
		other	
		Identify and name a variety of plants and animals in	Within a habitat there are different micro-habitat that have different conditions
		their habitats, including micro-habitats	
		Describe how animals obtain their food from plants	The plants and animals in a habitat depend on each other for food and shelter etc.
		and other animals, using the idea of a simple food	
		chain, and identify and name different sources of	The way that animals obtain their food from plants and other animals can be shown in a food
		food.	chain.
			End Points:
			Understands that all objects are either living, dead or have never been alive and can find
			or name examples of these.

	Understands that animals and plants live in habitats that they are suited to and that
	habitats provide the basic needs for the animal (eg. food, shelter, water). Also know that
	in habitats there are different microhabitats.
	 Knows that a food chain shows how animals get their food and starts with a plant.

Year 3

Key Skills (Working Scientifically - Year 3/4)

- > asking relevant questions and using different types of scientific enquiries to answer them
- > setting up simple practical enquiries, comparative and fair tests
- making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- > gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
- recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
- > using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
- > identifying differences, similarities or changes related to simple scientific ideas and processes
- using straightforward scientific evidence to answer questions or to support their findings.

Year 3	Plants	•	Identify and describe the functions of different parts	Photosynthesis, pollen, insect/wind pollination, seed formation, seed dispersal – wind
			of flowering plants: roots, stem/trunk, leaves and	dispersal, animal dispersal, water dispersal
			flowers	
		•	Explore the requirements of plants for life and growth	Many plants have roots, stems/trunks, leaves and flowers/blossom. Pollen, which is
			(air, light, water, nutrients from soil, and room to	produced by the male part of the flower, is transferred to the female part of other flowers
			grow) and how they vary from plant to plant	(pollination). This forms seeds which are then dispersed in different ways. Different plants
		•	Investigate the way in which water is transported	require different conditions for germination and growth
			within plants	Observe what happens to plants over time when the leaves or roots are removed
		•	Explore the part that flowers play in the life cycle of	Investigate what happens to plants when they are put in different conditions
			flowering plants, including pollination, seed formation	Spot flowers, seeds, berries and fruits outside throughout the year
			and seed dispersal	Observe flowers carefully to identify the pollen
			·	Observe flowers being visited by pollinators
				Observe seeds being blown from the trees
				Research different types of seed dispersal
				Classify seeds in a range of ways
				Create a new species of flowering plant
				End Points:
				Knows the main parts of a plant and the function of each part
				Understands that some plants produce flowers which enable the plant to reproduce.
				Knows that different plants require different conditions for germination and growth.
Year 3	Rocks	•	Compare and group together different kinds of rocks	Rock, stone, pebble, boulder, grain, crystals, layers, hard, soft, texture, absorb water, soil,
			on the basis of their appearance and simple physical	fossil, marble, chalk, granite, sandstone, slate, soil, peat, sandy/chalk/clay soil
			properties	Rock is a naturally occurring material
		•	Describe in simple terms how fossils are formed when	There are different types of rock which have different properties.
			things that have lived are trapped within rock	Rocks can be different shapes and

		Recognise that soils are made from rocks and organic matter.	Soils are made up of pieces of ground down rock which may be mixed with plant and animal material The type of rock, size of rock piece and the amount of organic matter affect the property of the soil. Some rocks contain fossils. Observe rocks closely and classify Research using secondary sources how fossils are formed Observe soils closely and classify Research the work of Mary Anning End Points: • Understand that rock is a naturally occurring material and there are different types of rock which have different properties and have different sizes of grain or crystal. • Know that fossils were formed millions of years ago and can explain how fossils are formed.
Year 3	Light	 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 	Light, light source, dark, absence of light, transparent, translucent, opaque, shiny, matt, surface, shadow, reflect, mirror, sunlight, dangerous We see objects because our eyes can sense light. Dark is the absence of light. Some objects are sources of light. The light from the sun can damage our eyes and therefore we should not look directly at the Sun Shadows are formed on a surface when an opaque or translucent object is between a light source and the surface and blocks some of the light. The size of the shadow depends on the position of the source, object and surface. End Points: Understand that we need light to see and that without any light at all we would not be able to see. To know that some objects are light sources (and be able to name some) but the moon is not a light source. To know that shadows are formed when an opaque or translucent object blocks some of the light and the size of the shadow depends on the position of the light source, object and surface.
Year 3	Forces and magnets	 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 two poles 	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

Predict whether two magnets will attract or repel Magnets have two poles – a north pole and a south pole. each other, depending on which poles are facing For some forces to act there must be contact Some forces can act at a distance. The magnet does not need to touch the object that it attracts. **End Points:** Understands that a force is a push or a pull and that the texture of a surface will affect how an object moves on it. Knows that a magnet attracts magnetic material and that the strongest parts of a magnet are called poles. Know that magnets have two poles – a north pole and a south pole and that if two poles the same are brought together they will push away from each other - repel, and if two different poles are brought together they pull together – attract. Understands that for some forces to act, there must be contact (e.g. the wind moving the trees) but some forces can act at a distance (e.g. magnetism - the magnet does not need to touch the object that it attracts). Year 4 Key Skills (Working Scientifically - Year 3/4) asking relevant questions and using different types of scientific enquiries to answer them setting up simple practical enquiries, comparative and fair tests making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers gathering, recording, classifying and presenting data in a variety of ways to help in answering questions recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions

using straightforward scientific evidence to answer questions or to support their findings. Year 4 Living things and their Recognise that living things can be grouped in a variety of ways Classification, classification keys, environment, habitat, human impact, positive, negative, migrate, hibernate

identifying differences, similarities or changes related to simple scientific ideas and processes

local and wider environment

Recognise that environments can change and that this

can sometimes pose dangers to living things

habitats

• Explore and use classification keys to help group, identify and name a variety of living things in their Classification keys can be used to identify and name living things.

Living things live in a habitat which provides an environment to which they are suited These environments may change naturally. Humans also cause the environment to change.

These environments also change with the seasons

Observe plants and animals in different habitats throughout the year

Use classification keys to name unknown living things

Classify living things found in different habitats based on their features

Create a simple identification key based on observable features

Use fieldwork to explore human impact on the local environment

Use secondary sources to find out about how environments may naturally change and to find out about human impact, both positive and negative, on environments

			End Points:
			 Know that living things can be grouped (classified) in different ways according to their features and use classification keys.
			Know that living things live in a habitat which provides an environment to which they are suited (Year 2 learning).
			 Understand that environments may change naturally (e.g. from flooding) and that humans can also cause the environment to change: sometimes for good (setting up nature reserves) but sometimes not good (littering). Know that environments also change with the seasons and different living things can be found in a habitat at different times of the year.
Year 4	Animals including humans	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	Nutrition, nutrients, carbohydrates, sugars, protein, vitamins, minerals, fibre, fat, water, skeleton, bones, muscles, support, protect, move, skull, ribs, spine, muscles, joints Animals need to eat in order to get the nutrients they need. Food contains a range of
document as Year 3)		 what they eat Identify that humans and some other animals have skeletons and muscles for support, protection and movement 	different nutrients that are needed by the body to stay healthy Humans and some other animals have skeletons and muscles which help them move and provide protection and support. Classify food in a range of ways
		movement	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
			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 Compare, contrast and classify skeletons of different animals
Year 4	Animals including humans	Describe the simple functions of the basic parts of the digestive system in humans	Digestive system, digestion, mouth, teeth, saliva, oesophagus, stomach, small intestine, nutrients, large intestine, rectum, anus, teeth, incisor, canine, molar, premolars, herbivore, carnivore, omnivore, producer, predator, prey, food chain
	numans	 Identify the different types of teeth in humans and their simple functions 	Food enters the body through the mouth.
		 Construct and interpret a variety of food chains, 	Digestion starts when the teeth start to break the food down.
		identifying producers, predators and prey	Saliva is added and the tongue rolls the food into a ball.
			The food is swallowed and passes down the oesophagus to the stomach.
			Here the food is broken down further by being churned around and other chemicals are
			added.
			The food passes into the small intestine. Here nutrients are removed from the food and leave the digestive system to be used elsewhere in the body.
			The rest of the food then passes into the large intestine. Here the water is removed for use elsewhere in the body.
			What is left is then stored in the rectum until it leaves the body through the anus Humans have four types of teeth
			Living things can be classified as producers, predators and prey according to their place in
			the food chain.
			Research the function of the parts of the digestive system

			Explore eating different types of food Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls Use food chains to identify producers, predators and prey within a habitat Use secondary sources to identify animals in a habitat and find out what they eat End Points: Animals/Animals including humans • Knows the basic sequence of the digestive system and can say what happens at each part. • Knows that humans have different types of teeth and be able to name some along with the job they do (e.g. incisors for cutting). • Understands that living things can be classified as producers, predators and prey according to their place in the food chain and name some within a habitat.
Year 4	Electricity	 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 buzzers 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 Recognise 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 	Electricity, electrical appliance/device, mains, plug, electrical circuit, component, cell, battery, positive, negative, connect/connections, loose connection, short circuit, crocodile clip, bulb, switch, buzzer, motor, conductor, insulator, metal, non-metal, symbol Many household devices and appliances run on electricity. An electrical circuit consists of a cell or battery connected to a component using wires. If there is a break in the circuit, a loose connection or a short circuit the component will not work. A switch can be added to the circuit to turn the component on and off. 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 Construct a range of circuits Explore how to connect a range of different switches and investigate how they function in different ways 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 End Points: Knows that an electrical circuit consists of a cell or battery connected to a component using wires and if there is a break in the circuit it will not work. Can make and name the components in a circuit Knows the difference between conductors and insulators and give examples of each.
Year 4	Sound	 Identify how sounds are made, associating some of them with something vibrating Recognise that vibrations from sounds travel through a medium to the ear 	Sound, source, vibrate, vibration, travel, pitch (high, low), volume, faint, loud, insulation A sound source produces vibrations which travel through a medium from the source to our ears. Different mediums can carry sound but sound cannot travel through a vacuum

- 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
- Recognise that sounds get fainter as the distance from the sound source increases

The vibrations cause parts of our body inside our ears to vibrate, allowing us to hear (sense) the sound.

The loudness (volume) of the sound depends on the strength (size) of vibrations Pitch is the highness or lowness of a sound and is affected by features of objects producing the sounds. Classify sound sources

Explore making sounds with a range of objects

Explore using objects that change in feature to change pitch and volume

Measure sounds over different distances

Measure sounds through different insulation materials

End Points:

- Knows that sound produces vibrations which travel through a medium from the source to our ears.
- Knows that different mediums such as solids, liquids and gases can carry sound, but sound cannot travel through a vacuum (an area empty of matter).
- Knows that the loudness (volume) of the sound depends on the strength (size) of vibrations which decreases as they travel through the medium. Therefore, sounds decrease in volume as you move away from the source.
- Knows that Pitch is the highness or lowness of a sound and is affected by features of objects producing the sounds. For example, smaller objects usually produce higher pitched sounds.

Year 5

Key Skills (Working Scientifically - Year 5/6)

- planning different types of scientific enquiries to answer questions
- > taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- recording data and results of increasing complexity using scientific diagrams and graphs
- using test results to make predictions to set up further comparative and fair tests
- > reporting and presenting findings from enquiries, including conclusions, causal relationships
- identifying scientific evidence that has been used to support or refute ideas or arguments.

Year 5 Fo	orces •	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	Force, gravity, Earth, air resistance, water resistance, friction, mechanisms, simple machines, levers, pulleys, gears A force causes an object to start moving, stop moving, speed up, slow down or change direction. Gravity is a force that acts at a distance. Air resistance, water resistance and friction are contact forces that act between moving surfaces. A mechanism is a device that allows a small force to be increased to a larger force. Pulleys, levers and gears are all mechanisms, also known as simple machines. Investigate the effect of friction, water resistance and air resistance in a range of contexts
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			Research how the work of scientists such as Galileo Galilei and Isaac Newton helped to develop the theory of gravitation End Points: Know that a force causes an object to start moving, stop moving, speed up, slow down or change direction: Know about gravity and its impact on our lives Know that air resistance, water resistance and friction are contact forces that act between moving surfaces and know the effect of these forces. Know that a mechanism is a device that allows a small force to be increased to a larger force and that Pulleys, levers and gears are all mechanisms, also known as simple machines.
Year 5 (on Plan document as Year 4)	States of matter	 Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C) Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature 	Solid, liquid, gas, state change, melting, freezing, melting point, boiling point, evaporation, temperature, water cycle A solid keeps its shape and has a fixed volume. A liquid has a fixed volume but changes in shape to fit the container. A gas fills all available space; it has no fixed shape or volume. Melting is a state change from solid to liquid. Freezing is a state change from liquid to solid. Boiling is a change of state from liquid to gas Evaporation is the same state change as boiling Condensation is the change back from a gas to a liquid caused by cooling. Understanding precipitation and the water cycle Observe closely and classify a range of solids and liquids Explore making gases visible and showing their effect Classify materials according to whether they are solids, liquids and gases Observe a range of materials melting Investigating melting point of different Explore freezing different liquids Use a thermometer to measure temperatures Observe water evaporating Set up investigations to explore changing the rate of evaporation Use secondary sources to find out about the water cycle End Points: • Understands and can name the properties of solids, liquids and gases. • Knows about how materials change state and know the temperature at which materials change state (boiling at 100°C and freezing at 0°C) • Know about the water cycle and can explain evaporation and condensation (evaporation is the same state change as boiling, but slower and condensation is the change back from a gas to a liquid caused by cooling).

Year 5	Properties and changes of materials	 Compare and group together everyday materials on the basis of their properties 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 Give reasons, based on evidence, 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 	Thermal/electrical insulator/conductor, change of state, mixture, dissolve, solution, soluble, insoluble, filter, sieve reversible/non-reversible change, burning, rusting, new material Materials have different uses depending on their properties and state Properties include hardness, transparency, electrical and thermal conductivity and attraction to magnets. Some materials will dissolve in a liquid and form a solution while others are insoluble and form sediment. Mixtures can be separated by filtering, sieving and evaporation. Some changes to materials are reversible and other are non-reversible Investigate the properties of different materials in order to recommend materials for particular Explore adding a range of solids to water and other liquids Investigate rates of dissolving by carrying out comparative and fair test Separate mixtures by sieving, filtering and evaporation Explore a range of non-reversible changes Carry out comparative and fair tests involving non-reversible changes End Points: Understands the properties of materials and use this to explain everyday uses of materials and can group them. Knows and can explain what dissolving means, and give examples of materials that dissolve. Uses their knowledge of liquids, gases and solids to suggest how materials can be recovered from solutions or mixtures (by evaporation, filtering or sieving) and can name equipment used for this.
Year 5	Earth and space	 Describe the movement of the Earth, and other planets, relative to the Sun in the solar system Describe the movement of the Moon relative to the Earth 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 	Earth, Sun, Moon, (Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune) spherical, solar system, rotates, star, orbit, planets The Sun is a star. It is at the centre of our solar system. There are 8 planets These travel around the Sun in fixed orbits. Earth takes 365½ days to complete its orbit around the Sun. The Earth rotates on its axis every 24 hours. As Earth rotates half faces the Sun (here it is day) and half is facing away from the Sun (night). As the Earth rotates the Sun appears to move across the sky. The Moon orbits the Earth. It takes about 28 days to complete its orbit. The Sun, Earth and Moon are approximately spherical. Use secondary sources to help create a model Make first-hand observations of how shadows caused by the Sun change through the day Make a sundial Research time zones

Year 5	Living things and their habitats	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 animals Describe the changes as humans develop to old age	Consider the views of scientists in the past and evidence used to deduce shapes and movements of the Earth, Moon and planets before space travel End Points: Know that the Sun is a star at the centre of our solar system and that there are 8 planets that travel around the Sun in fixed orbits. Can explain the movement of the Earth and how this produces day and night and knows the time it takes for the earth to orbit the sun Know about and can explain the movement of the moon relative to the Earth and describes each using the term spherical. Life cycle, reproduce, sexual, sperm, fertilises, egg, live young, metamorphosis, asexual, plantlets, runners, bulbs, cuttings As part of their life cycle plants and animals reproduce. Most animals reproduce sexually. Some young undergo a further change before becoming adults This is called a metamorphosis. Plants reproduce both sexually and asexually. Bulbs, tubers, runners and plantlets are examples of asexual plant reproduction which involves only one parent. Sexual reproduction occurs through pollination, usually involving wind or insects. Use secondary sources and, where possible, first hand observations to find out about the life cycle of a range of animals Compare the gestation times for mammals and look for patterns Look for patterns between the size of an animal and its expected life span Grow and observe plants that reproduce asexually Take cuttings from a range of plants Plant bulbs and then harvest to see how they multiply Use secondary sources to find out about pollination End Points: Understands and can explain the life cycle of a range of animals and be able to identify similarities and differences between the life cycles. Knows and can name the key parts of a plant/flower and the roles they play Understands and can explain the difference between sexual and asexual reproduction and give examples of how plants reproduce in both ways.
Teal 3	including humans	(This builds on the learning in living things and their habitats) Taught alongside PSHE/RSE	When babies are young they grow rapidly. They are very dependent on their parents. As they develop they learn many skills. At puberty, a child's body changes and develops primary and secondary sexual characteristics. This enables the adult to reproduce.

Year 6

Key Skills (Working Scientifically - Year 5/6)

- > planning different types of scientific enquiries to answer questions
- taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- > recording data and results of increasing complexity using scientific diagrams and graphs
- using test results to make predictions to set up further comparative and fair tests
- reporting and presenting findings from enquiries, including conclusions, causal relationships
- identifying scientific evidence that has been used to support or refute ideas or arguments.

ind hum &Rel Edd	olimals cluding ans – Sex ationship ucation (SRE)	Taught alongside PSHE/RSE	Puberty: the vocabulary to describe sexual characteristics When babies are young they grow rapidly. They are very dependent on their parents. As they develop they learn many skills. At puberty, a child's body changes and develops primary and secondary sexual characteristics. This enables the adult to reproduce.
Year 6 Living and 1 Habit	_	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.	Vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, insects, spiders, snails, worms, flowering and non-flowering 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 Plants can make their own food whereas animals cannot. Animals can be divided into two main groups – those that have backbones (vertebrates) and those that do not (invertebrates). Vertebrates 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 plants. 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 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 Create an imaginary animal which has features from one or more groups End Points: Know that Living things can be grouped according to characteristics and understand that Plants and animals are two main groups but there are other livings things that do not fit into these groups e.g. micro-organisms.

Year 6	Animals Including Humans	 Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood 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. 	 Know that animals can be divided into two main groups (vertebrates and invertebrates) and that these can then be divided again into other groups. Know that plants can be divided into two main groups (flowering and non-flowering plants) and that plants can make their own food but animals cannot. Be able to give examples of different living things in these groups and explain reasons for classifying plants and animals in a specific way. Heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, nutrients, water, muscles, cycle, circulatory system, diet, exercise, drugs and lifestyle The heart pumps blood in the blood vessels around to the lungs. Oxygen goes into the blood and carbon dioxide is removed. The blood goes back to the heart and is then pumped around the body. Nutrients, water and oxygen are transported in the blood to the muscles and other parts of the body where they are needed. As they are used they produce carbon dioxide and other waste products. Carbon dioxide is carried by the blood back to the heart and then the cycle starts again as it is transported back to the lungs to be removed from the body. This is the human circulatory system. Diet, exercise, drugs and lifestyle have an impact on the way our bodies function. Some conditions are caused by deficiencies in our diet Carry out a range of pulse rate investigations Learn about the impact of exercise, diet, drugs and lifestyle on the body. This is likely to be taught through direct instruction due to its sensitive nature End Points: Be able to explain how the human circulatory system works, naming the main parts and their functions. Know and be able to explain how water and nutrients are transported in animals, including humans.
Year 6	Evolution and Inheritance	 Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago 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 their environment in different ways and that adaptation may lead to evolution. 	Offspring, sexual reproduction, vary, characteristics, suited, adapted, environment, inherited, species, fossils All living things have offspring of the same kind, as features in the offspring are inherited from the parents. Due to sexual reproduction, the offspring are not identical to their parents and vary from each other. Plants and animals have characteristics that make them suited (adapted) to their environment. If the environment changes rapidly some variations of a species may not suit the new environment and will die. If the environment changes slowly, animals and plants with variations that are best suited survive in greater numbers to reproduce and pass their characteristics on to their young.

Year 6	Light	 Recognise 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. Associate the brightness of a lamp or the volume of a 	Over time these inherited characteristics become more dominant within the population. Over a very long period of time these characteristics may be so different to how they were originally that a new species is created. This is evolution. Fossils give us evidence of what lived on the Earth millions of year ago and provide evidence to support the theory of evolution. Design a new plant or animal to live in a particular habitat Use models to demonstrate evolution e.g. Darwin's finches bird beak activity Use secondary sources to find out about how the population of peppered moths changed during the industrial revolution Make observations of fossils to identify living things that lived on Earth millions of years ago Identify features in animals and plants that are passed on to offspring Explore this process by considering the artificial breeding of animals or plants e.g. dogs Compare the ideas of Charles Darwin and Alfred Wallace on evolution End Points: Understands and can explain the process of evolution. Understands and can explain how different plants and animals are suited (adapted) to their environments and link adaptation over time to evolution. Understands erproduction and offspring, recognising that offspring vary and are not identical to their parents. Light source, absence of light, transparent, translucent, opaque, shiny, matt, surface, reflect, mirror, straight lines, light rays. Light appears to travel in straight lines and we see objects when light from them goes into our eyes. The light may come directly from light sources but for other objects some light must be reflected from the object into our eyes for the object to be seen. Objects that block light (are not fully transparent) will cause shadows. Because light travels in straight lines the shape of the shadow will be the same as the outline shape of the object. Explore different ways to demonstrate that light travels in straight lines, from a light source to our eyes or reflected from other objects into our eyes. Understands and can
real o	Licentalty	buzzer with the number and voltage of cells used in the circuit	switch, voltage Adding more cells to a complete circuit will make a bulb brighter, a motor spin faster or a buzzer make a louder sound.

•	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 Use recognised symbols when representing a simple circuit in a diagram.	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 complete and electricity cannot flow. Any bulbs, motors or buzzers will then turn off as well. You can use recognised circuit symbols to draw simple circuit diagrams. Explain how a circuit operates to achieve particular operations, such as control the light for a torch with varying brightness or make a motor go faster or slower Make circuits to solve particular Carry out fair tests exploring changes in circuits Make circuits that can be controlled as part of a D&T project
		 End Points: Be able to make electric circuits and knows how the number and voltage of cells within a circuit links to the brightness of a light or the volume of a buzzer. Be able to compare and give reasons why components work and do not work in a circuit. Be able to use recognised circuit symbols to draw simple circuit diagrams.

HISTORY

	Торіс	What the children are taught	NC Content Skills and Knowledge See medium term plans for these skills broken down into year groups	Key History Vocabulary taught (see MTP for specific vocabulary content)
Year 1	All about me Life in London	 changes within living memory (history of grandparents) the lives of significant individuals in the past who have contributed to national and international achievements (Richard III, Queen Elizabeth II, Dr Barnardo, Florence Nightingale, Samuel Pepys, Roald Amundsen, Neil Armstrong) significant historical events, 	 Develop an awareness of the past Use common words and phrases relating to the passing of time (see next column) Understand where the people and events they are studying fit into a chronological framework Identify similarities and differences Ask and answer questions Understand how we find out about the past End Points Year 1: Use common words and phrases relating to the passing of time 	A long time ago, same/different, change, people, lives, Past, now, modern, old, new History, significant, timeline, order, compare, similar, different, fact, opinion, artefact, event, source, evidence, changes, invention, question, cause, consequences,
Year 2	The Great Fire of London	people and places in their own locality	Be able to state how times have changed between now and Victorian times	reason, connections, century, decade, living memory, periods of time

	Explorers	events beyond living memory that are significant nationally (Great Fire of London)	End Points Year 2: ➤ Be able to recount relevant facts from The Great Fire of London ➤ To know that Roald Amundsen and Neil Armstrong contributed to international achievements	
Year 4	Changes in Britain from the Stone Age to Iron Age The Roman Empire and its impact on Britain Britain settlement by Anglo-Saxon and Scots Viking and Anglo-Saxon Struggle for the kingdom of England to the time of Edward the confessor. A local History study (Castle Donington) A study of Greek life and achievements and their influence on the western world (Ancient Greece)	 Develop a chronologically secure knowledge and understanding of British, local and world history Note connections, contrasts and trends over time Address and devise historically valid questions about change, cause, similarity, difference and significance Construct informed responses that involve thoughtful selection and organisation of relevant information Understand that knowledge of the past comes from a range of sources 	 Develop a chronologically secure knowledge and understanding of British, local and world history They should note connections, contrasts and trends over time and develop the appropriate use of historical terms They should regularly address and sometimes devise historically valid questions about change, cause, similarity and difference, and significance. They should construct informed responses that involve thoughtful selection and organisation of relevant historical information. They should understand how our knowledge of the past is constructed from a range of sources End Points Year 3: Understand that items found in the past between Stone Age and Iron Age are helping us to build accurate pictures of how people lived To give some examples of what impact the Roman Empire had on Britain To recognise different time periods that exist between different groups invading Britain End Points Year 4: To articulate how the Greeks have influenced the Western world To communicate their understanding of the history of Castle Donington 	Chronological, Millennium, BC/BCE, AD/CE, era, similarities, differences, Prehistoric, primary, secondary sources, ancient, modern, archaeology, archaeologist, contrasts, trends over time, influence, significant, impact
Year 5	A study on the achievements of the earliest civilizations – Ancient Egyptians	 Develop a chronologically secure knowledge and understanding of British, local and world history Note connections, contrasts and trends over time Address and devise historically valid questions about change, 	 Develop a chronologically secure knowledge and understanding of British, local and world history They should note connections, contrasts and trends over time and develop the appropriate use of historical terms They should regularly address and sometimes devise historically valid questions about change, cause, similarity and difference, and significance. 	Cause and effect, propaganda, bias, society, Empire, point of view, objectivity, subjectivity, consequences, legacy, Modern British Values, laws

Yea	ar 6	A study of an aspect or theme in British history that extends	cause, similarity, difference and significance	They should construct informed responses that involve thoughtful selection and organisation of relevant historical	
		pupils' chronological knowledge beyond 1066 (Life in Britain leading up to, during and after The Second World War) A study of a Non-European	 Construct informed responses that involve thoughtful selection and organisation of relevant information Understand that knowledge of the past comes from a range of 	information. They should understand how our knowledge of the past is constructed from a range of sources End Points Year 5: To identify the achievements of the Ancient Egyptians and their importance in history	
		society - Benin	sources	their importance in history	
				End Points Year 6:	
				To name key events leading from the First WW to Second WW and their impact on British history	
				To describe the key facts about Benin history and how this contrasts with the British history they have covered	

GEOGRAPHY

	Topic	What the children are taught	NC Content Skills and Knowledge	Vocabulary taught
			See medium term plans for these	
			skills broken down into year groups	
Year 1	Around and About	Locational knowledge	Develop knowledge about the	Human: City, town, village,
		Name and locate the world's seven continents and five	world, the United Kingdom and	factory, farm, house, office, port,
	Chocolate	oceans (both years)	their locality	harbour, shop, capital city, country
		Name, locate and identify characteristics of the 4	Understand basic geographical	
	Life in London	countries and capital cities of the UK and its surrounding	vocabulary both human and	Physical : beach, cliff, coast, forest,
		seas (both years)	physical	hill, mountain, sea, ocean, river,
	Safari	Place knowledge	Use first hand observation and	soil, valley, vegetation, season,
		Understand geographical similarities and differences	geographical skills to enhance	weather, marine
	Percy the Park Keeper	through studying the human and physical geography of a	local awareness	
		small area of UK (Year 1) and of a small area in a		Map and fieldwork: Asia, Africa,
	Ongoing work/discussion	contrasting non-European country (Year 2)	End Points Year 1:	North America, South America,
	about seasons		Can they say what they like about	Antarctica,
		Human and Physical Geography	their locality?	Australia/Oceania/Australasia,
		Identify seasonal and daily weather patterns in the UK	Can they identify the four	Europe, Arctic, Southern, Pacific,
		and the location of hot and cold areas of the world in	countries making up the United	Atlantic, Indian
			Kingdom?	

Year 2	Climate and countries Islands and Explorers	relation to the Equator and the North and South Poles (both years) Use geographical vocabulary to refer to key physical and human features. (both years – see column opposite) Geographical skills and fieldwork Use simple fieldwork and observational skills to study the geography of their school and its grounds and the human and physical features of surrounding environment (Year 1) Use world maps, atlases and globes to identify the UK and its countries, as well as the countries, continents and oceans studied at this key stage. Use simple compass directions and locational and directional language to describe the geography of their school and its grounds and the key human and physical features of its surrounding area (Year 1, compass directions again in Year 2) Use aerial photographs and plan perspectives to recognise landmarks and basic human and physical features; devise a simple map; and use and construct basic symbols in a key (Year 2)	 Can they name some of the main towns and cities in the United Kingdom? Can they explain the main features of a hot and cold place? Can they point out where the equator, north pole and south pole are on a globe or atlas? Can they name the capital cities of England, Wales, Scotland and N. Ireland? Can they find where they live on a map of the UK? Can they describe the key physical features of a place using words like beach, coast, forest, hill, mountain, ocean, valley? Can they name the continents of the world and find them in an atlas? Can they name the world's oceans and find them in an atlas?
Year 4	Romans Anglo-Saxons and the Vikings Contrasting Location Study - Castleton	 Locational knowledge Locate the world's countries, using maps to focus on Europe (including the location of Russia) Year 3 Locate the world's countries, using maps to focus on North and South America, concentrating on their environmental regions, key physical and human characteristics, countries, and major cities - Year 5 Name and locate counties and cities of the United Kingdom, geographical regions and their identifying human and physical characteristics, key topographical features (including hills, mountains, coasts and rivers), and land-use patterns; and understand how some of these aspects have changed over time - Year 3 Identify the position and significance of latitude, longitude, Equator, Northern Hemisphere, Southern 	 ➤ Extend knowledge and understanding beyond the local area to include the United Kingdom and Europe, North and South America including the location and characteristics of a range of the world's most significant human and physical features. ➤ Develop the use of geographical knowledge, understanding and skills to enhance their locational and place knowledge. ► End Points Year 3: ➤ To name and locate well-known countries and cities in Europe. Country, county, economy, trade, energy Physical: landscape, hills and mountains (and UK names e,g, Grampians) Coast, rural, climate, erosion, deposition, earthquake, volcano, water cycle, geology, minerals and rock types, Tundra, coniferous, deciduous, Mediterranean, mountainous, desert Map and fieldwork: observe, measure, record, environmental, region, compass points, ordancae survey map, scale, 4 figure grid,

		Hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic Circle, the Prime/Greenwich Meridian and time zones (including day and night) Year 5/6 Place knowledge Understand geographical similarities and differences through the study of human and physical geography of a region of the United Kingdom - Year 4 Understand geographical similarities and differences through the study of human and physical geography of a region in a European country - Year 6 Understand geographical similarities and differences through the study of human and physical geography of a region within North or South America (Year 5) Human and Physical Geography Describe and understand key aspects of: physical geography, including: climate zones, biomes and vegetation belts (Year 5), rivers (Year 5) mountains, volcanoes (Year 3) and earthquakes (Year 3), and the water cycle (Year 5) human geography, including: types of settlement and land use, economic activity including trade links, and the distribution of natural resources including energy, food, minerals and water (Year 4) Geographical skills and fieldwork	A A A Enc	To use an 8-point compass correctly. To name up to six cities in the UK. To name up to six counties in the UK. To describe how volcanoes are created. To describe how earthquakes are created. describe how volcanoes are created. describe how volcanoes are created. describe how volcanoes are created. describe how earthquakes are created. describe how earthquake	reference, contours, symbols, minerals, rocks Other: globally significant, land use, mountains, river features, equator, hemisphere, food chain, condensation, evaporation, change/effect
		energy, food, minerals and water (Year 4) Geographical skills and fieldwork Use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied		references, symbols and key	
Year 5	Rainforests	 Use the eight points of a compass, four and six-figure grid references, symbols and key (including the use of Ordnance Survey maps) to build their knowledge of the United Kingdom and the wider world (Year 4) Use fieldwork to observe, measure, record and present the human and physical features in the local area using a range of methods, including sketch maps, plans and graphs, and digital technologies. 	•	Extend knowledge and understanding beyond the local area to include the United Kingdom and Europe, North and South America including the location and characteristics of a range of the world's most significant human and physical features.	Human: trade, deforestation, derelict, economy Physical: Tributary, confluence, meander, ox bow estuary, mouth source, biomes, climate zones Map and fieldwork: GIS – geographical information systems, global warming, latitude, longitude, north/south

Year 6	A study to compare a region in UK with a European country (France)	 Develop the use of geographical knowledge, understanding and skills to enhance their locational and place knowledge. 	1
	Adventure	End Points Year 5: Can they explain how the water cycle works? Can they explain why people are attracted to live by rivers?	
		 Can they name and locate many of the world's major rivers on maps? Can they locate and name the main countries in South America 	
		on a world map and atlas? End Points Year 6: Describe geographical similarities and differences through the study of human and physical geography of a region in France	

ART AND DESIGN

	Skill Development	What the children are taught	NC Aims
Year 1	Painting	Painting a rainbow - Painting Mix primary colours and shades using different types of paint.	 Produce creative work, exploring ideas and recording experiences Be proficient in drawing, painting, sculpture and other art, craft and design
	Drawing	Christmas Decoration – Textiles Learn the technique of weaving using a variety of media	 Evaluate and analyse creative works using the language of art, craft and design Know about the great artists, craft makers and designers, and
	Textiles	 Learn basic running stitch to join fabric African Prints - Printing Make marks in print with a variety of objects 	understand the historical and cultural development of their art forms
	Printing	Build a repeating pattern and recognise pattern in the environment. Batik - Textiles	
	Textiles	Be confident with printing on fabric. Drawing Sunflowers - Drawing	

Year 2	Drawing	Use a variety of tools, e.g. pencils, rubbers, crayons, pastels, felt tips, charcoal, ballpoints, chalk and other dry media. Leaf Rubbings - Printing Make rubbings. Henri Rousseau - Drawing and Painting Draw for a sustained period of time from the figure and real objects, including single and grouped objects.	
	Painting	 Mix a range of secondary colours, shades and tones. Mix and match colours to artefacts and objects. 	
	3D Form	A CONTRACTOR DAY	
		Great Fire of London – Drawing and Painting Layer different media, e.g. crayons, pastels, felt tips, charcoal and	
		ballpoint.	
		 Mix a range of secondary colours, shades and tones. Experiment with tools and techniques, e.g. layering, mixing media, 	
		scraping etc.	
		Work on a range of scales e.g. large brush on large paper etc.	
		Insect Sculpture – 3D FormManipulate clay	
		Experiment with, construct and join natural materials more	
		confidently.	
Year 3	Drawing	Vincent Van Gogh – Drawing	Produce creative work, exploring ideas and recording experiences
	Textiles	 Experiment with different grades of pencil and other implements. Draw for a sustained period of time at their own level. 	Be proficient in drawing, painting, sculpture and other art, craft and design
	Textiles	 Use different media to achieve variations in line, texture, tone, 	 Evaluate and analyse creative works using the language of art, craft
	3D form and painting	colour, shape and pattern.	and design

		Christman Decembing Toutiles		Manage to the control of the control
		Christmas Decorations – Textiles	•	Know about the great artists, craft makers and designers, and
		Develop skills in stitching, cutting and joining.		understand the historical and cultural development of their art forms
		• Experiment with a range of media e.g. overlapping, layering etc.		
		Clarice Cliff – 3D form and painting		
		Join clay adequately and work reasonably independently.		
		Use a developed colour vocabulary.		
		Experiment with different effects and textures eg. blocking in colour,		
		washes, thickened paint etc.		
		Work confidently on a range of scales e.g. thin brush on small picture		
		etc.		
Year 4	Drawing	Self Portraits – Drawing		
		Explore relationships between line and tone, pattern and shape, line		
	Painting	and texture.		
		Roy Lichenstein Self-portrait – Painting		
	3D Form	Make and match colours with		
		increasing accuracy.		
		Use more specific colour language e.g.		
		tint, tone, shade, hue.		
		Choose paints and implements		
		appropriately.		
		Show increasing independence and		
		creativity with the painting process.		
		John Constable Cloud Study – Painting		
		Choose paints and implements appropriately.		
		Plan and create different effects and textures with paint according to		
		what they need for the task.		
		Anthony Gormley – 3D Form		
		Plan, design, make and adapt models.		
		Talk about their work understanding that it has been sculpted,		
		modelled or constructed.		
		Use a variety of materials.		
Year 5	Drawing	Oenone Hammersley – Drawing and Painting		
		Use a variety of source material for their work.		
	Painting	Work in a sustained and independent way from observation		
		Work on preliminary studies to test media and materials		
	Sculpture	Rainforest animals – Sculpture		
		Use recycled, natural and man-made materials to create sculpture.		
	Textiles	Plan a sculpture through drawing and other preparatory work.		
	6			
	Printing			



Space Cross Stitch – Textiles

- Use different grades and uses of threads and needles.
- Extend their work within a specified technique.

<u>Lino Printing – Printing</u>

- Explain a few techniques, e.g the use of poly-blocks, relief, mono and resist printing.
- Organise their work in terms of pattern, repetition, symmetry or random printing styles.



Year 6	Drawing	The Eye – Drawing
		Demonstrate a wide variety of ways to make different marks with dry
		and wet media.
	3D Form	 Manipulate and experiment with the elements of art: line, tone,
		pattern, texture, form, space, colour and shape.





Sculptures – 3D Form

• Create sculpture and constructions with increasing independence.





MUSIC

	Performing	Improvising and Composing	Listening and Reviewing	Dimensions*	
KS1	Use their voices expressively and creatively by singing songs and speaking chants and rhymes • Sing simple songs and chants (with actions) building rhythmic and melodic memory • Use voices to create sounds – humming, whispers, clicks and whistles • Start and stop together on direction • Begin to use correct technique when playing a range of percussion instruments • Keep a steady beat and copy simple rhythmic patterns	Play tuned and untuned percussion instruments musically. Experiment with, create, select and combine sounds using the interrelated dimensions* of music Create and clap own rhythms Create patterns of sound — long/short, high/low, loud/quiet Use instruments to reflect a topic or add sound effects to a story Invent symbols to represent sound and create a simple graphic score for pitch or duration that others can follow	Listening and Reviewing Listen with concentration and understanding to a range of high quality live and recorded music Talk about music heard with appropriate vocabulary Begin to explore how music can affect emotions Recognise how music enriches our lives Compare two contrasting pieces of music for dimensions such as pitch or tempo Think of ways to improve their compositions	Pitch: recognise and respond to high, low and middle sounds Duration: recognise and respond to a pulse and patterns of long and short sounds Dynamics: understand loud, quiet and silence Tempo: understand fast and slow Timbre: identify different percussion sounds and how they are made Texture: recognise and respond to one sound leading to many sounds Structure: understand and identify beginning, middle and end and use of repetition and structure	

Lower KS2	Play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression • Sing rounds and partner songs (Y3 and 4) • Sing songs with a simple ostinato parts (Y3 and 4) • Sing with a developing understanding of expression and dynamics (both) • Perform simple rhythmic and melodic patterns on a variety of percussion instruments (both) • Read and play up to 3 notes on the recorder with a degree of accuracy and care (Y4)	Improvise and compose music for a range of purposes using the interrelated dimensions* of music Use and understand staff and other musical notation Represent sounds on a graphic score with symbols for a group performance (Y3 Environment) Create a soundscape using tuned and untuned percussion (Y3 Environment) Compose 4 bars of music using 3 notes with an understanding of note value and time signature (Y4) Staff notation: recognise notes on the stave and note values of crotchet, quaver and minim (Y4) Understand and use musical terminology within vocal and instrumental composition (both) Begin to take part in improvisation sessions with confidence (Y4)	Listen with attention to detail and recall sounds with increasing aural memory Appreciate and understand a wide range of high quality live and recorded music drawn from different traditions and from great composers and musicians Develop an understanding of the history of music Recognise family groups within the orchestra and the importance of the conductor (Y4) Describe and give opinions of music heard with some use of musical vocabulary (Y4) Discuss the emotional impact of a piece (Y4) Identify some of the structural and expressive aspects of the music heard (Y4) Share ways to improve the composition of others (Y4)	Pitch: recognise and respond to higher and lower sounds and general shapes of a melody. Begin to recognise steps, leaps and repeated notes Duration: distinguish between a pulse and rhythm. Understand that rhythmic patterns fir to the beat. Begin to understand 4 metre rhythm patterns and syncopated patterns Dynamics: understand louder and quieter in finer graduations Tempo: understand getting faster and slower in finer graduations Timbre: identify a range of instruments by name and how they are played. Texture: recognise different combinations of layers in music Structure: develop an understanding of repetition (ostinato) and contrast (verse/chorus) and repeat signs.
Upper KS2	 Confidently sing part songs and rounds with control, expression, phrasing and dynamics (both) Play percussion instruments with an understanding of pitch, 2, 3 and 4 metre and syncopated rhythms (Y6) Accurately maintain an independent part within a 	Represent sounds on a graphic score with symbols for group performance with an awareness of balance, tempo and dynamics (Y6) Improvise with confidence and an awareness of rhythm, context and purpose (Y5) Group soundscape	 Describe and give opinions of the music heard with confident use of an extended range of musical terminology (10 pieces) Listen to music of differing genres (e.g. jazz, blues, classical) and compare and contrast the different styles (10 pieces) Discuss ways to improve 	Pitch: Identify steps, leaps and repeated notes. Identify a major scale pattern and use pitch knowledge to recreate a piece on tuned percussion Duration: Understand 2, 3 and 4 metre rhythm patterns and recognise and use a syncopated rhythm Dynamics: understand how a wider range of dynamics can be used for expressive effect Tempo: understand how a wider range of tempi can be used for expressive effect Timbre: discuss the 'quality' of voice and instruments

composition with

group in both instrumental

and families of instruments

the composition of others

	and vocal performance		instruments and vocals	using musical dimensions	Texture : begin to understand different types of	
	(Y5)		and a conductor (Y6)	as a guide (Year 5	harmony	
	 Read and play at least 5 	•	Compose four bars of	recorders)	Structure: develop an understanding of conventional	
	notes on a recorder with		music using up to 5 notes		musical structures (e.g. repeat signs, rondo, ostinato)	
	greater accuracy and		with an understanding of			
	independence (Y5)		note value and time			
	 Perform with control, 		signature and melody (Y5)			
	dynamics and awareness	•	Staff notation: recognise			
	of others (Y5)		notes on the stave and			
			note values of semiquaver,			
			quaver, crochet, minim			
			and semibreve (Y5)			

DESIGN AND TECHNOLOGY

	Topic	What the children are taught	NC Aims See medium term plans for these skills broken down into year groups
Year 1 Year 2	Bird Feeder Food Technology Fruit Kebabs Great fire of London Fire engines Food Technology Bread	 Key Stage 1 Design Design purposeful, functional, appealing products for themselves and other users based on design criteria Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology Make Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics 	 Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world Build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users Critique, evaluate and test their ideas and products and the work of others Understand and apply the principles of nutrition and learn how to cook. suggest how their products could be improved
		 Evaluate Explore and evaluate a range of existing products Evaluate their ideas and products against design criteria Technical knowledge Build structures, exploring how they can be made stronger, stiffer and more stable 	

		 Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. Cooking and Nutrition Use the basic principles of a healthy and varied diet to prepare dishes Understand where food comes from 	
Year 3	Stone Age tools Roman Shields	Key Stage 2 Design	Develop the creative, technical and practical expertise needed to perform everyday tasks
	Food Technology Viking Sweet Style Pudding	Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups	confidently and to participate successfully in an increasingly technological world Build and apply a repertoire of knowledge,
Year 4	Electricity and Light	 Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, 	understanding and skills in order to design and make high-quality prototypes and
	Food Technology Greek salad	pattern pieces and computer-aided design Make	products for a wide range of usersCritique, evaluate and test their ideas and
Year 5	Egyptian Shadufs Levers and Pulleys	 Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately 	 products and the work of others Understand and apply the principles of nutrition and learn how to cook.
	Food Technology Leek and Potato Soup / Potato Cheesy Bites	 Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities 	nutrition and realithow to cook.
Year 6	Marble game	Evaluate Investigate and analyse a range of existing products	
	Food Technology Vegetable Turn Over	 Investigate and analyse a range of existing products Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work Understand how key events and individuals in design and technology have helped shape the world Technical knowledge 	
		Apply their understanding of how to strengthen, stiffen and reinforce	
		Food and Nutrition	
		 Understand and apply the principles of a healthy and varied diet Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques 	
		Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed	

PHYSICAL EDUCATION

	Unit	What the children are taught	NC Aims See schemes of work for these skills broken down into key stages
Year 2	Gymnastics – Flight; Points and Patches; Rock and Rolling; Wide, Narrowed, Circled Games – Developing Partner Work; Ball Skills; Throwing and Catching; Bat and Ball Dance - VS Unit 3 Handa's Surprise; Unit 4 Rainbow Fish; Unit 5 Bear Hunt Athletics – Leicestershire Scheme of Work Y1 Unit Gymnastics – High and Low; Pathways; Turning, Spinning/Twisting; Linking Movements Games – Throwing and Catching; Making Up Games; Dribbling, Kicking and Hitting; Group Games and Inventing Rules Dance VS Unit 3 Traditional tales Athletics - Leicestershire Scheme of Work Y2 Unit	 Master basic movements including running, jumping, throwing and catching, as well as developing balance, agility and co-ordination, and begin to apply these in a range of activities Participate in team games, developing simple tactics for attacking and defending Perform dances using simple movement patterns. 	 Develop competence to excel in a broad range of physical activities Are physically active for sustained periods of time Engage in competitive sports and activities Lead healthy, active lives.
Year 3	Gymnastics - Symmetry and Asymmetry; Pathways Games Invasion Games – netball and football; Striking and Fielding Games; Creative Games Dance VS Unit 1 Who am I?; Extreme Earth Swimming – Basic stroke technique and stamina Athletics - Leicestershire Scheme of Work Y3/4 Unit	 Use running, jumping, throwing and catching in isolation and in combination Play competitive games, modified where appropriate and apply basic principles suitable for attacking and defending Develop flexibility, strength, technique, control 	
Year 4	Gymnastics – Balance and Receiving Body Weight; Balance/change of direction and rolling Games Invasion Games; Problem solving and inventing games; net/wall games; striking and fielding Dance - LCP Greek Olympics; Carnival of the Animals Athletics - Leicestershire Scheme of Work Y3/4 Unit	 and balance Perform dances using a range of movement patterns Take part in outdoor and adventurous activity challenges both individually and within a team Compare their performances with previous ones 	
Year 5	Gymnastics - Bridges; Flight; Circuit training Games - Invasion Games – hockey and soccer, ball handling, striking and fielding, implementing and kicking Dance - LCP Rivers; Bangra Dancing Athletics - Leicestershire Scheme of Work Y5/6 Unit	and demonstrate improvement to achieve their personal best.	
Year 6	Gymnastics - Working together; matching, mirroring and Counter-Balance and Counter-Tension		

	Games - invasion games – football/basketball/ tag rugby; striking and	
	fielding – rounders and cricket; Net and Wall - Tennis	
	Dance - Synchronisation; WW2	
	Athletics - Leicestershire Scheme of Work Y5/6 Unit	
	Outdoor and Adventurous – Team building/challenge	

COMPUTING

	Unit	What the children are taught	NC Aims See medium term plans for these skills broken down into year groups
Year 1	Basic Computer Skills Digital Media and Animation Presentation E-Safety	 To log onto a device To be safe, responsible and respectful online. To create pictures and text on documents To take photos and videos End Points Year 1: Knows how to be safe, responsible and respectful online. Knows to tell an adult when they see something unexpected or worrying online. Can press buttons in the correct order to follow a set of instructions Begin to use the word debug when correcting mistakes in programming. Use technology to collect information, including photos, video and sound. Use technology to create and present my ideas. Use the keyboard or a word bank on my device to enter text. Use links (Including favourites) to websites to find information.	 create and debug simple programs & use logical reasoning to predict the behaviour of simple programs use technology purposefully to create, organise, store, manipulate and retrieve digital content recognise common uses of information technology beyond school To use technology safely and respectfully
Year 2	Basic Computer Skills Research and the Internet Databases Programming E-Safety	 To log onto a device using personal log on To be safe, responsible and respectful online. To create pictures and text on documents and edit and save them To create a database To programme a device End Points Year 2: Know what kind of information should be kept to themselves when using the internet. Know what they should do if someone is mean to them online. Can verbalise the order to do things to make something happen and talk about this as an algorithm. Program a robot or software to do a particular task. Watch a program execute and spot where it goes wrong before beginning to debug it. Make and save a chart or graph using the data they collect	

		Use technology to organise and present ideas in different ways. Save and open files on the device they use. Begin to understand that other people have created the information they use.	
Year 3	Basic Computer Skills Research and the Internet Presentation Programming E-Safety	 Knows how digital citizens take responsibility for themselves, their community and their world. Programme a sphero, reviewing and adjust instructions Create a google slide presentation embedding text, image and video Use a search engine Develop word processing skills End Points Year 3: Knows how a strong password can help to protect their privacy.	 design, write and debug programs that accomplish specific goals understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration use search technologies effectively, appreciate how results are selected and ranked, and be
		Know that what they post online can affect their identity. Knows what they should do when someone uses mean or hurtful language online. Separates multi-step problems into smaller parts before debugging. Use the repeat commands successfully. Collect data over a short period of time that can help find the answers to a question. Combine a mixture of text, graphics and sound to share learning ideas. Use an appropriate tool to share my work online. Use search tools to find and use an appropriate website. Understands whether images found online can be used in their own work.	 discerning in evaluating digital content select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content collect, analyse, evaluate and present data and information use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report
Year 4	Basic Computer Skills Research and the Internet Databases & Spreadsheets Programming E-Safety	 Knows how their online activity affects the digital footprint of themselves and others. Programme a sphero, decomposing complex problems into simple steps. Create and format spreadsheets Validate research from websites Develop word processing skills End Points Year 4: Knows what information about themselves is ok to share online and understands why passwords need to be secure. Knows how their online activity affects the digital footprint of themselves and others Uses an efficient procedure to simplify a program. 	concerns about content and contact.

		One wise data in different const
		Organise data in different ways.
		Choose the best, most efficient way to present data to others.
		Use photos, video and sound to create an atmosphere when presenting to different audiences.
		Use a keyboard confidently and make use of a spellchecker to write and review
		work.
		Identifies key words to use when searching and create a hyperlink to a resource
Year 5	Basic Computer Skills	
real 5	•	Knows how their online activity affects the digital footprint of
	Research and the Internet	themselves and others.
	Digital Media & Animation	Develop knowledge of browsers and copyright of images
	Programming	Select use and combine different programmes and software to create a
	E-Safety	media presentation.
		Can programme a Sphero to follow multi-step instructions.
		End Points Year 5:
		Knows what Cyberbullying is and what they can do to stop it.
		Understands what the important parts of an online news article are.
		Refine a procedure using repeat commands to improve a program.
		Use 'if' and 'then' commands to select an action.
		Use logical reasoning to detect and debug
		Use a spreadsheet and database to collect and record data
		Present data in an appropriate way.
		Select use and combine different programmes and software to create a media
		presentation
		Select an appropriate online or offline tool to create and share ideas.
		Use different online communication tools for different purposes.
		Use a search engine to find appropriate information and check its reliability.
Year 6	Basic Computer Skills	Present work to a high standard using a selected programme
	Research and the Internet	 Knows how their online activity affects the digital footprint of
	Spreadsheets	themselves and others.
	Presentation	To use the internet safely to research a variety of topics
	E-Safety	Use basic formula in spreadsheets
	,	Ose basic formula in spreadsheets
		End Points Year 6:
		Knows how to communicate safely on the internet
		Understands the pros and cons of social media.
		Explain and program each of the steps in their algorithm.
		Recognise when I need to use a variable to achieve a required output.
		Check data collected or provided for accuracy and plausibility.
		check data concerted of provided for accuracy and plausionity.

	Present data collected in an appropriate way.	
	Combine a range of media, recognising the contribution of each to achieve a	I
	particular outcome.	I
	Be digitally discerning when evaluating the effectiveness of their own work and	I
	the work of others.	I
	Select an appropriate tool to communicate and collaborate online.	
	Check the reliability of a website.	I
	Understands copyright and acknowledges the sources of information they use	I
	from online.	I
		I

RELATIONSHIPS AND SEX EDUCATION (incorporating PSHE)

Unit	What the children are taught	NC Aims
		See medium term plans for these skills broken
		down into year groups

In addition to the Year Group units, the areas below are ongoing:

Physical Health and Fitness: The importance of building regular exercise into daily and weekly routines and how to achieve this; for example, walking or cycling to school, a daily active mile or other forms of regular, vigorous exercise

Mental Health and Wellbeing: The benefits of physical exercise, time outdoors, community participation, voluntary and service-based activity, on mental wellbeing and happiness

Being Safe: How to ask for advice or help for themselves or others and to keep trying until they are heard

Respectful Relationships: The conventions and courtesy of manners

The importance of respecting others, even when they are very different from them; that they can expect to be treated with respect by others, and that they in turn should show due respect to others, including those in positions of authority

Internet Safety and Harms: Through ongoing computing and safer internet practise, and Internet Safety Day: Why social media, some computer games and online gaming are age restricted

Health and Prevention – All classes regularly go over the importance of personal hygiene, the spread of germs and viruses and importance of handwashing.

Health and Prevention – We take the opportunity during vaccination times, to explore the need for immunisation provided through vaccination. **Basic First Aid** is covered through the Year 5 First Aid Day and Year 6 visit The Safety Zone

Year 1	Beginning and Belonging	Creating a classroom where they can learn safely and happily	*Endpoints to reach by the end of KS 2
		Building relationships within the classroom	Families and People who care for me
		Coping with new situations in school	

	 Knowing how to find support
Family and Friends	 Developing friendship skills
	Valuing difference
	Families and other special people
	• Explore what sort of boundaries are appropriate in friendships with peers and
	others
Managing risk	Knowing how to find support
	Identify risky situations
	Identify emotions associated with risks
	 Understand strategies to use in risky situations
	Explore how to respond to adults they encounter whom they do not know
	Receiving and giving help
	neserving and giving neip
	 Explore dangers posed by traffic, the sun, water and getting lost
Safety contexts	Identify characteristics of safe places to play
	Understand ways of preventing accidents
	- Onderstand ways of preventing accidents
5 1 1 . 16	Body knowledge
Relationships and Sex	Name for external parts of body including sexual parts
Education	garan para di
	Body functions and changes
	 Examples of what our body can do e.g. skipping, writing and discuss favourite
	activities
	Body awareness and image
	-understand they have responsibility for their body's actions
	- understand their body belongs to them
	- things we do privately – toilet/changing
	- which parts of our body are private
	Personal hygiene
	 How to keep themselves clean at home e.g. cleaning teeth
	 How to keep clean at school e.g. washing hands
	Illness and disease prevention
	How germs can enter the body and how to prevent

- the characteristics of healthy family life,
- that others' families, either in school or in the wider world, sometimes look different from their family
- that marriage represents a formal and legally recognised commitment of two people to each other which is intended to be lifelong.
- how to recognise if family relationships are making them feel unhappy or unsafe

Caring friendships

- how important friendships are in making us feel happy and secure and the characteristics of friendships;
- how to recognise who to trust and who not to trust, how to judge when a friendship is making them feel unhappy or uncomfortable, managing conflict, how to manage these situations

Respectful relationships

- The importance of respecting others, even when they are very different from them
- The conventions of courtesy and manners.
- The importance of self-respect and how this links to their own happiness
- About different types of bullying (including cyberbullying), the impact of bullying, responsibilities of bystanders and how to get help.
- What a stereotype is, and how stereotypes can be unfair, negative or destructive.
- The importance of permission-seeking and giving in relationships with friends, peers and adults.

Year 2	Personal Safety	Identify trusted adults	Online relationships
		 Use the senses to help identify safe places to play 	That people sometimes behave differently
		 Understand the need for a safety strategy 	online, including by pretending to be
		 Identify and name body parts including sexual parts 	someone they are not.
		 Identify and distinguish between 'yes' and 'no' touches 	That the same principles apply to online
		 Recognise 'good' and 'bad' touches and tricks 	relationships as to face-toface
		 Assess risks to keep safe & Use assertive voice and body language 	relationships,
		 Understand What, When, Who and How to tell 	The rules and principles for keeping safe
	My emotions		online
	Wiy emotions	 Understand and manage feelings 	
		 Know how to get support when they need it 	How to critically consider their online friendships and assumes of information.
		 Understand and manage the impact of feelings 	friendships and sources of information
		Explore what 'relaxed' and 'calm' mean	How information and data is shared and
		Explore assertiveness	used online.
		 Use a problem-solving process with help 	Being safe
			What sorts of boundaries are appropriate
	Drug Education	Explore what happens when substances such as food, drink and medicines enter	in friendships with peers and others
		the body	About the concept of privacy
		Explore medicines and how all medicines are drugs, but not all drugs are medicine	The differences between appropriate and
		Explore how all drugs and all household substances are harmful if not used properly.	inappropriate or unsafe physical, and other
		if not used properly	contact.
		Explore how to avoid risky situations and influences and how to find support	How to respond safely and appropriately to
	Anti-Bullying	Defining bullying	adults they may encounter (in all contexts,
		Explore causes and types of bullying	including online) whom they do not know.
		Understand how bullying makes us feel	How to recognise and report feelings of
		 Identify strategies and where to find support in school - it is essential that they 	being unsafe or feeling bad about any adult
		discuss their feelings with a trusted adult to avoid isolation and loneliness	and how to report concerns or abuse, and
		Know how to respond if others are bullied	the vocabulary and confidence needed to
		 Explore how a caring ethos is promoted in school, encouraging positive and safe 	do so and where to get advice e.g. family,
		relationships	school and/or other sources.
		 Understand that resorting to violence is never right 	school and/of other sources.
	Relationships and Sex	The human life cycle	
	Education	Humans have babies which turn into adults	
		 Recognise baby animals and their parents 	
		 Understand our parents were once babies 	
		Growing up	
		Describe things they can know do that they couldn't when they were a baby	

		Describe ways body changes as get older e.g. adult teeth, get taller
		besombe ways sour enames as get older eight addit teething get tailer
		Personal responsibilities
		 Explain things they did as a baby e.g. cry, first words etc
		 Describe responsibilities they know have e.g. setting table/folding clothes/ getting
		dressed
		 How they can help others now older
		Parents Carers Families
		- What does a parent have to do for a baby?
		 What does a baby need to stay happy and healthy?
Year 3	Family and Friends	Developing friendship skills
	, , , , , , , , , , , , , , , , , , , ,	Valuing differences between ourselves and seeing things from different points of
		view
		 Identifying people who are special to them
		 Explore how there are different patterns of family life
		 Refer to how marriage represents a formal and legally recognised commitment of
		two people to each other which is intended to be lifelong
		Knowing how to find support and how to recognise if family relationships are
		making them feel unhappy or unsafe, and how to seek help or advice from others if needed
		ii needed
	Healthy Lifestyles	Understand what makes a healthy and balanced lifestyle - emphasise what
		constitutes a healthy diet including understanding calories and other nutritional
		content building from Year 2 Science and linking to Year 3
		 Understand the importance of healthy eating
		 Understand how dental hygiene contributes to a healthy lifestyle
		 Emphasise importance of sufficient good quality sleep for good health and that
		lack of sleep can affect weight, mood and ability to learn
		Emphasise the risks associated with an inactive lifestyle (including obesity)
		How to recognise early signs of physical illness such as weight loss or unexpected how read to the hadrest and the second sec
		changes to the body
		 Reflect on their own lifestyles and take responsibility for making healthy choices Ensure they know how and when to seek support including which adults to speak
		to in school if they are worried about their health
		Lindoustand have been stanistics of builting and different forms including
	Anti-Bullying	 Understand key characteristics of bullying and different forms including cyberbullying
		Understand that resorting to violence is never right
		- Office state that resolving to violence is never right

	Relationships and Sex Education	 Understand a range of reasons why bullying happens including when people do not respect difference and diversity Understand how bullying affects us, reinforce how it can cause isolation and loneliness, so it is essential that they discuss their feeling with a trusted adult Understand strategies for protection from bullying including responding assertively Understand how to support others who are being bullied Identifying ways of making school a safer place where bullying is less likely to happen The human lifecycle Main stages e.g. birth, baby, child, teenager etc Say what stage a person is at and describe differences in bodies at different stages Growing up What does grown up mean? How we feel about growing up Personal responsibilities Understand adults and children have different responsibilities Understand adults and children have different responsibilities State a responsibility they'd like to take on
		Parents Carers Families - What do parents/carers have to do to care for babies?
		- What do parents/carers have to do to care for bables: - What can children know do that they couldn't when a baby?
		How are parents/carers special?
Year 4	Beginning and Belonging	Contributing to discussions about how to make a classroom where they can learn
		safely and happily
		Participate in activities which build collaborative relationships within their class Pass price and the sign in a passitive time in a passitive time in a passitive time.
		Recognise emotions involved in being in new situations in school Recognise emotions involved in being in new situations in school Recognise emotions involved in being in new situations in school Recognise emotions involved in being in new situations in school Recognise emotions involved in being in new situations in school
		Know how to make new people welcome and what might be helpful for them in a new situation
		Identify sources of support and how they may also help others
	My emotions	Understanding and managing an increasing range of emotions, both comfortable
		and uncomfortable
		Understanding and managing the impact of emotions This is a second of the impact of emotions.
		Think about their worries and strategies to deal with them, including seeking
		 support Explore the impact of feelings on their actions and strategies for dealing with this
		- Explore the impact of reclings on their actions and strategies for acaims with this

	Recognise when they are becoming angry or upset and develop good calming
	strategies
	Explore how to act assertively
_	Use a problem-solving process without help sometimes
Drug Education	
	Understand more about different types of drugs and how they enter the
	bloodstream
	 Develop understanding about essential use of medicines and basic safety rules including storage
	Explore attitudes and beliefs about nicotine and alcohol, people who may use or
	misuse them and why
	Understand how to act if harmful items are found
	Begin to recognise a range of influences and ways of dealing with these
Relationships and Sex	
Education	Body knowledge
	 Use body part names e.g. penis, vagina, vulva, testicle, breast.
	Discuss differences between male and female body
	Body functions and change
	 Name body parts and sort them into male only/ female only/ both
	- Describe appearance of a given person in a picture e.g. long legs, small hands etc
	Body awareness and image
	Recognise each body is different e.g. hair colour, skin colour, foot size
	- Understand our bodies are special because they are unique
	Personal hygiene
	Describe own personal hygiene routines e.g. changing underwear, washing hair,
	showering
	Why do body parts need to be kept clean?
	 Own responsibilities for personal hygiene and personal hygiene routines which an
	adult is responsible for
	- Responsibilities for personal hygiene they will take on in the future e.g. washing
	clothes/visiting dentist
	Illness/disease prevention
	 How germs get into the body
	 Actions we can take to prevent passing on germs

Body functions and changes

		 Name some changes to their body and opposite sex during puberty e.g. periods, voice breaking, pubic hair
Year 5	My emotions	 Understanding and managing feelings, the impact they can have and explore strategies to help them cope Concentrate on individual emotions – boredom, worry and stress Use the 'problem-solving process' to help myself and others To be able to get support when it is needed Refer to how it is common for people to experience mental ill health. For many who do, the problems can be resolved if the right support is made available, especially if accessed early enough Build confidence and assertiveness
	Financial Capability	 Explore the history of money, trade and currencies Explore a range of jobs, skills and pay and reasons for deductions on earnings Differentiate between essentials and desires Know how to plan for the immediate and more distant future Focus on financial responsibility and feelings about money Manage money in a real-life situation
	Anti Bullying	 Define bullying through comparing and contrasting different forms i.e. physical, verbal, indirect, cyberbullying Understand that resorting to violence is never right Understand personal factors or circumstances that may cause someone to engage in bullying or become a target Understand the feelings of all those involved in bullying – those who are bullied, perpetrators, followers and bystanders Understand strategies for responding to bullying including responding assertively Reinforce that it is essential that they discuss their feelings with a trusted adult, to avoid isolation and loneliness
	Managing Change	 Identify a range of situations which involve loss and change Develop coping with emotions in loss and change situations Recognise a range of changes that occur during a lifetime and develop strategies for coping with future changes
	Relationships and Sex Education	Body knowledge - Name sexual parts of males and females seen outside the body - Name sexual parts of males and females seen inside the body

		Acceptable words for sexual parts to use in class and which words can be	
		rude/offensive	
		Body functions and changes	
		Understand that physical changes happen at different rates for different people	
		- Worries about puberty and how to cope with these	
		Body awareness/images	
		Describe why like a part of their body	
		How positive comments about appearance make people feel good	
		- Fashion/media influence/desire to look like friends	
		Personal hygiene	
		Name personal hygiene products relevant to puberty	
		Name body parts to be washed daily during puberty	
		Illness/disease prevention	
		 Name some infectious diseases and ways they can be spread 	
		 Explain how they can reduce spread of common diseases 	
		Describe how HIV can be stopped from spreading	
		The human lifecycle	
		- Know the facts of the human lifecycle, including sexual intercourse	
Year 6	Family and Friends	Identify who is in their network of special people	
		Understanding and valuing differences within individuals and families	
		Recognise some of the pressures on relationships and develop strategies to	
		manage them	
		Know how to access support	
		Identify ways in which they already do or could support others - recognising if family relationships are making them feel unbanay or unsafe and how to seek help.	
		family relationships are making them feel unhappy or unsafe and how to seek help or advice	
		Recognise and report feelings of being unsafe or feeling bad about any adult	
		 Explore what sort of boundaries are appropriate in friendships with peers and 	
		others	
	Diversity and Communities	Explore their own identity and that of others	
		Understand aspects of the ethnic make-up of the local community and the	
		national context	
		Recognise negative effects of stereotyping and prejudice	
		Recognise the different communities they belong to	

	Know about the role of the media and how it can influence them and their
	community
	Explore caring for the environment, animals and plants
ı	
Drug Education	Explore drug types and effects including medicines (prescribed and over the
	counter) legal recreational and illegal
	Understand the role of medicines in promoting, improving and sustaining health
	Develop their knowledge, understanding and attitudes relating to alcohol,
	cigarettes, solvents and their effects, risks and consequences
	Begin to learn about the law relating to the use and misuse of legal and illegal designs.
	 drugs Recognise a range of risky situations relating to drugs and substances and know
	where to find further information and advice
	where to find further information and advice
Safety Context	Talk about situations where staying safe is important
	Identify safety issues when cycling
	 Identify ways to stay safe in the sun and have strategies to keep themselves safe
	Identify a wider range of risky situations and have realistic strategies for staying
	safe e.g. railway line
	Understand the rules for keeping people safe in school
	Understand how to prevent a wider range of accidents
Relationships and Sex	The Human Lifecycle
Education	 What happens at a human birth
	Growing up
	What they are looking forward to/not looking forward to about becoming a
	teenager/adult
	Personal responsibilities
	 Their responsibilities for the feelings/wellbeing of others
	Parents Carers Families
	- Understand there are different types of love
	- Special ways people 'in love' might behave
	- The need for trust, love and commitment in adult marriage/established
	relationships
	How commitment can be shown
	Why people who are in love may choose to have a baby

	 Understand and respect a wide range of family relationships e.g. same sex 	
	partners, extended families, fostering, second marriages etc	

RE

	What the children are taught	SACRE Aims
		See the Agreed Syllabus medium term plans for these skills broken down into year groups
Year 1	1.1 Who is a Christian and what do they believe?	Believing
	1.8 How should we care for others and the world and why does it	Know about and understand a range of religions and worldviews, so that they can:
	matter?	• describe, explain and analyse beliefs and practices, recognising the diversity which
	1.6 How and Why do we celebrate special and sacred times?	exists within and between communities and amongst individuals
Year 2	1.7 What does it mean to belong to a faith community?	• identify, investigate and respond to questions posed, and responses offered by
	1.2 Who is a Muslim and what do they believe?	some of the sources of wisdom found in religions and worldviews
	1.5 What makes some place sacred?	• appreciate and appraise the nature, significance and impact of different ways of life
	(Include visit to church)	and ways of expressing meaning.
Year 3	L2.4 Why do people pray?	
	L2.3 Why is Jesus inspiring to some people?	Expressing
	L2.9 What can we learn from religions about deciding what is right and	Express ideas and insights about the nature, significance and impact of religions and
	wrong?	worldviews, so that they can:
Year 4	L2.5 Why are festivals important to religious communities?	• explain reasonably their ideas about how beliefs, practices and forms of expression
	L2.8 What does it mean to be a Hindu in Britain today?	influence individuals and communities
	L2.6 Why do some people think that life is a journey and what	• express with increasing discernment their personal reflections and critical responses
	significant experiences mark this?	to questions and teachings about identity, diversity, meaning and value, including
Year 5	U2.6 What does it mean to be a Muslim in Britain today?	ethical issues
	U2.1 Why do some people believe God exists?	appreciate and appraise varied dimensions of religion.
	U2.7 What matters most to Christians and Humanists?	
Year 6	What would Jesus do?	Living
	U2.3 What do religions say when life gets hard?	Gain and deploy the skills needed to engage seriously with religions and
	Creation and Science: Competing or Complementary?	worldviews, so that they can:
		• find out about and investigate key concepts and questions of belonging, meaning,
		purpose and truth, responding creatively

	• enquire into what enables different individuals and communities to live together
	respectfully for the wellbeing of all • articulate beliefs, values and commitments
	clearly in order to explain why they may be important in their own and other people's
	lives

FRENCH

	What the children are taught	NC Aims
		See medium term plans for these skills broken down into year groups
Year 3	 Listen attentively to spoken language and show understanding by joining in and responding Explore the patterns and sounds of language through songs and rhymes and link the spelling, sound and meaning of words 	To understand and communicate ideas, facts and feelings in speech and writing, focused on familiar and routine matters, using their knowledge of phonology, grammatical structures and vocabulary.
Year 4	 Appreciate stories, songs, poems and rhymes in the language Listen attentively to spoken language and show understanding by joining in and responding Develop accurate pronunciation and intonation so that others understand when they are reading aloud or using familiar words and phrases 	End Points: Year 3 – Sounds, words & simple sentences Starting to recognise the sounds and patterns of the French language. Producing a simple sentence and answering a familiar question. Year 4 – Short sentences and question patterns Speaking, reading and
Year 5	 Listen attentively to spoken language and show understanding by joining in and responding Speak in sentences, using familiar vocabulary, phrases and basic language structures Present ideas and information orally to a range of audiences Engage in conversations; ask and answer questions; express opinions and respond to those of others; seek clarification and help Read carefully and show understanding of words, phrases and simple writing Broaden their vocabulary and develop their ability to understand new words Understand basic grammar 	writing short sentences and questions. Recognising the sound of some letter strings. Exploring simple grammatical concepts Year 5 – More complex sentences and questions Developing an awareness of question forms. Speaking, reading and writing more complex word order. Improving letter and sound links. Year 6 – Initiating and manipulating language Consolidating understanding of basic grammar and applying it creatively to speaking, reading and writing. Developing confident pronunciation.
Year 6	Listen attentively to spoken language and show understanding by joining in and responding	

•	Engage in conversations; ask and answer questions; express opinions and
	respond to those of others; seek clarification and help
•	Write phrases from memory, and adapt these to create new sentences, to
	express ideas clearly
•	Describe people, places, things and actions orally and in writing