Big idea	Aspect	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Humankind	Human body	head, arms, legs, nose, eyes, ears, mouth,	□ AOL: World The basic body eparts are the head, arms, legs, nose, eyes, ears, mouth, hands and feet. Different body parts are used for different things, such as the eyes are used to see. Draw pictures of the human body and name some of the different body parts.  Optional		☐ Human offspring go through different stages as they grow to become adults. These include baby, toddler, child, teenager, adult and elderly. Describe the stages of human development (baby, toddler, child, teenager, adult and elderly).	Major bones in the human body include the skull, ribs, spine, humerus, ulna, radius, pelvis, femur, tibia and fibula. Major muscle groups in the human body include the biceps, triceps, abdominals, trapezius, gluteals, hamstrings, quadriceps, deltoids, gastrocnemius, latissimus dorsi and pectorals. Describe how humans need the skeleton and	☐ The digestive system is responsible for digesting food and absorbing nutrients and water. The main parts of the digestive system are the mouth, oesophagus, stomach, small intestines large intestines and rectum. The mouth starts digestion by chewing food and mixing it with saliva. The oesophagus transports the chewed food to the stomach, where it mixes with stomach acid and gets broken down into smaller pieces. In the small intestine, nutrients from the food are absorbed by the body. In the large intestine, water is absorbed by the body. The remaining undigested waste is stored in the rectum before excretion through the anus. Describe the purpose of the digestive system, its main parts and each of their functions.	which involves two parents (one female and one male) and produces offspring that are different from the parents. Describe the process of human reproduction.	☐ The circulatory system includes the heart, blood vessels and blood. The heart pumps blood through the blood vessels and around the body. There are three types of blood vessel: arteries, veins and capillaries. They each have a different-sized hole (lumen) and walls. The blood carries gases (oxygen and carbon dioxide), water and nutrients to where they are needed. The red blood cells carry oxygen and carbon dioxide around the body. The blood also contains white blood cells, which protect the body from infection. Name and describe the purpose of the circulatory system and the functions of the heart, blood vessels and blood.  Covered x 3 optional x 3
	Staying safe	rules to stay safe.	AOL: PSED Rules help to keep us safe in different environments and when using certain equipment. Follow instructions when in different environments and when handling simple equipment, such as scissors.  Assign	☐ It is important to stay safe. Some ways to stay safe include staying safe in strong sunlight (sun cream, sun hat and sunglasses), crossing roads (stop, look and listen), in the kitchen (not touching hot or sharp objects) and with household chemicals (not touching, drinking or eating). Describe ways to stay safe in some familiar situations.	survive. Describe what	skin. Protection from the Sun	□ Working with electrical circuits can be dangerous. Precautions include not touching electrical components with wet hands and not putting batteries in mouths. Explain the precautions needed for working safely with electrical circuits.  Optional	□ Very hot and very cold materials can burn skin. Heating materials should be done safely. Explain the precautions needed for working safely when heating, burning, cooling and mixing materials.	☐ Lasers are intense beams of light and they should never be pointed at people's faces or aircraft. Explain the dangers of using lasers and ways to use them safely.
	Healthy lifestyle			☐ Hand washing and good hygiene are important parts of a healthy lifestyle and prevent the spread of germs. Explain why hand washing and cleanliness are important.		is important to have a balanced diet made up of the main food groups, including proteins, carbohydrates, fruit and vegetables, dairy products and alternatives, and fats and	☐ Regular teeth brushing, limiting sugary foods and visiting the dentist are important for good oral hygiene. Describe what damages teeth and how to look after them.		(exercise and eating healthily) or negative (drugs, smoking and alcohol) impact on the body. Explain the impact of positive and negative lifestyle choices on the body.  covered x 2 optional x 4
	Pattern seeking		AOL: World The weather can change throughout the day, week and month. The weather is different at different times in the year. Notice and begin to describe patterns of weather in summer and winter.  Covered optional	summer, autumn and winter. Certain	☐ The UK has typical weather in each of the seasons. For example, winter is cold and sometimes frosty, whereas summer is warm and sometimes sunny. Describe typical UK seasonal weather patterns.	moves. For example, when the light source is high above the object, the shadow is short and when the light source is low down, the object's shadow is	sounds. Parts of an instrument that are longer, looser or fatter produce low- pitched sounds. Compare and find	(24 hours) to complete a full spin. During the day, the Sun appears to move through the sky. However, this is due to the Earth rotating and not a the Sun moving. Earth rotates to the east or, if viewed from above the North Pole, it rotates anti-clockwise, which means the Sun rises in the	depends on the position or type of light source. Explain, using words, diagrams or a model, why shadows have the same
	Changes	AOL: World In the winter, the evenings gets darker earlier. In the summer, the evening stay lighter for longer. Talk about things they can do on winter evenings and things they can do on summer evenings and begin to notice the difference in day length. Assign	The days are longer in summer and shorter in winter. Notice and talk about the differences in day length between the seasons.  Assign	□ Day length (the number of daylight hours) is longer in the summer months and shorter in the winter months. Observe and describe how day length changes across the year.	☐ Some objects and materials can be changed by squashing, bending, twisting, stretching, heating, cooling, mixing and being left to decay. Describe how some objects and materials can be changed and how these changes can be desirable or undesirable.	years and are the remains of a once-living organism, preserved as rock. Scientists can use fossils to find out what life on Earth was like in prehistoric times. Fossils form when a living thing dies in a watery environment. The body gets covered by mud and sand and the soft tissues rot away. Over time, the ground hardens	☐ Heating or cooling materials can bring about a change of state. This change of state can be reversible or irreversible. The temperature at which materials change state varies depending on the material. Water changes state from solid (ice) ⇒ liquid (water) at 0°C and from liquid (water) ⇒ gas (water vapour) at 100°C. The process of changing from a solid to liquid is called melting. The reverse process of changing from a liquid to a solid is called freezing. The process of changing from a liquid to a gas is	☐ Reversible changes include heating, cooling, melting, dissolving and evaporating. Irreversible changes include burning, rusting, decaying and chemical reactions. Identify, demonstrate and compare reversible and irreversible changes.	☐ Describe some significant changes that have happened on Earth and the evidence, such as fossils, that support this.  covered

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					covered x 2 optional	turn to rock. Describe simply how fossils are formed, using words, pictures or a model. covered x 2	called evaporation. The reverse process of changing from a gas to a liquid is called condensation. Observe and explain that some materials change state when they are heated or cooled and measure or research the temperature in degrees Celsius (°C) at which materials change state.  covered optional x 3		
		rainy, warm or cold. Weather is warmer in the summer and colder in the winter. Say what	AOL: World Ways to describe daily weather include sunny, rainy, windy, cloudy, warm or cold. Weather is warmer in the summer with more sunshine and colder in the winter with more snow, hail and rain. Describe simply how weather changes as the seasons change.  Covered x 2 optional x 4	□ Different types of weather include sunshine, rain, hail, wind, snow, fog, lightning, storm and cloud. The weather can change daily and some weather types are more common in certain seasons, such as snow in winter. Observe and describe different types of weather.	daytime in one location, it is night time on the other side of the world.	pieces of eroded rock, air and organic matter. There are a variety of naturally occurring soils, including clay, sand and silt. Different areas have	lakes, rivers and streams is warmed by	Earth, Mars, Jupiter, Saturn, Uranus and Neptune. Earth orbits around the Sun and a year (365 days) is the length of time it takes for Earth to complete a full orbit. Describe or model the movement of the planets in our Solar System, including Earth,	□ Light travels in straight lines. Identify that light travels in straight lines. covered □ Light sources give out light. They can be natural or artificial. When light hits an object, it is absorbed, scattered, reflected or a combination of all three. Light from a source or reflected light enter the eye. Vertebrates, such as mammals, birds and reptiles, have a cornea and lens that refracts light that enters the eye and focuses it on the nerve tissue at the back of the eye, which is called the retina. Once light reaches the retina, it is transmitted to the brain via the optic nerve. Explain that, due to how light travels, we can see things because they give out or reflect light into the eye.
		□ AOL: World Notice and begin to describe natural phenomena, such as weather, rainbows and clouds. Assign	AOL: World Natural phenomena include weather, shadows, rainbows, clouds, flooding and waves. Name and describe natural phenomena, such as the size of shadows, the colours of a rainbow, the speed of clouds moving across the sky and the strength of a wave.		☐ When an instrument is played by plucking, striking or blowing, the air around or inside it vibrates. These vibrations travel as a sound wave to the ear. Explain in simple terms how sounds are made. covered	see. Describe the differences between dark and light and	☐ When an instrument is played, the air around or inside it vibrates. These vibrations travel as a sound wave. Sound waves travel through a medium, such as air or water, to the ear. Explain how sounds are made and heard using diagrams, models, written methods or verbally.	☐ The Sun, Earth, Moon and the planets in our solar system are roughly spherical. All planets are spherical because their mass is so large that they have their own force	□ 'White' light is a term used to describe visible, ordinary daylight. White light can be split into a spectrum of colours (rainbow) by droplets of water or prisms. Describe, using scientific language, phenomena associated with refraction of light. covered
		sink. Talk about and play with objects that float and sink and	to the bottom of the vessel. An object that floats stays at the water's surface. Describe, predict	☐ Simple equipment can be used for measuring weather, such as measuring temperature with a thermometer; identifying wind direction and force with a windsock or measuring rainfall with a rain gauge. Investigate weather using toys, models or simple equipment.	that float are typically	force is applied. Some forces	A series circuit must be a complete loop to work and have a source of power from a battery or cell. Predict and describe whether a circuit will work based on whether or not the circuit is a complete loop and has a battery or cell covered x 2	The Earth's large mass exerts a gravitational pull on all objects on Earth, making dropped objects fall to the ground. Explain that objects fall	□ Voltage is measured in volts (V) and is a measure of the difference in electrical energy between two parts of a circuit. The bigger the voltage, the more electrons are pushed through the circuit. The more voltage flowing through a lamp, buzzer or motor, the brighter the lamp, the louder the buzzer and the faster the motor. Explain how the brightness of a lamp or volume of a buzzer is affected by the number and voltage of cells used in a circuit.
1		AOL: World Toys and models that are powered by a battery can be switched on and off. Play with and explore battery- powered toys and models. covered optional	□ AOL: World Some light sources need electricity or batteries to work, such as a torch, and some do not, such as candles. Explore and describe electrical and non-electrical light sources.	□ Electrical circuits can light lamps or sound a buzzer. A switch turns an electrical circuit off and on. Describe, following exploration, what simple electrical circuits can do.	☐ Models can have moving parts that use levers, sliders, wheels and axles. Make models with moving parts.  Optional	☐ Make working models with simple mechanisms or electrical circuits.	□ Electrical components include cells, wires, lamps, motors, switches and buzzers. Switches open and close a circuit and provide control. Construct operational simple series circuits using a range of components and switches for control.    Covered x 3   Optional x 2	☐ Mechanisms, such as levers, pulleys and gears, give us a mechanical advantage. A mechanical advantage is a measurement of how much a simple machine multiplies the force that we put in. The bigger the mechanical advantage, the less force we need to apply. Describe and demonstrate how simple levers, gears and pulleys assist the movement of objects.	

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Creativity	Report and conclude	□ AOL: CL Begin to offer simple explanations for why things happen.	AOL: World Represent scientific observations by mark making, drawing or creating simple charts and tables. Offer explanations for why things happen, making use of vocabulary, such as, because, then and next.  Covered x 6 optional x 3	☐ The results are information that has been found out from an investigation. Talk about what they have done and say, with help, what they think they have found out.  Covered x 4 optional x 6	investigation and can be used to answer a question. Begin to notice patterns and relationships in their data and explain what they	an investigation. A conclusion is the answer to a question that uses the evidence collected. Use suitable vocabulary to talk or write about what they have done, what the purpose was and, with help, draw a simple conclusion based on evidence	data or observations, that have been found out from an investigation. A conclusion is the answer to a question that uses the evidence collected. Use scientific vocabulary to report and answer questions about their findings based on evidence collected, draw simple conclusions and identify next steps, improvements and further	☐ The results are information, such as measurements or observations, that have been collected during an investigation. A conclusion is an explanation of what has been discovered using evidence collected. Use relevant scientific vocabulary to report on their findings, answer questions and justify their conclusions based on evidence collected, identify improvements, further questions and predictions.	☐ The results are information, such as measurements or observations, that have been collected during an investigation. A conclusion is an explanation of what has been discovered, using correct, precise terminology and collected evidence. Report on and validate their findings, answer questions and justify their methods, opinions and conclusions, and use their results to suggest improvements to their methodology, separate facts from opinions, pose further questions and make predictions for what they might observe.  covered x 3 optional x 8
	Gather and record data		AOL: Maths     Data can be recorded in tables and pictograms. Record data in simple tables and pictograms. Assign	□ Data can be recorded and displayed in different ways, including tables, pictograms and drawings. With support, gather and record simple data in a range of ways (data tables, diagrams, Venn diagrams).  Covered x 2 optional	ways, including tables, charts, pictograms and drawings. Use a range of	displayed in different ways, including tables, charts, graphs and labelled diagrams. Data can be used to provide evidence to answer questions.	present observations and measurements in a variety of ways (pictorial representations, timelines, diagrams, keys, tables, charts and		□ Data can be recorded and displayed in different ways, including tables, bar and line charts, scatter graphs, classification keys and labelled diagrams. Choose an appropriate approach to recording accurate results, including scientific diagrams, labels, timelines, classification keys, tables, models and graphs (bar, line and scatter), linking to mathematical knowledge.  covered x 5 optional x 3
Investigation	Questioning	AOL: CL Question words include why, what, when and how. Ask or answer a simple scientific question.	AOL: CL Question words include who, why, what, when, where and how. Ask a relevant scientific question to find out more, explain how things work and why they might happen.	☐ Question words include what, why, how, when, who and which. Ask simple scientific questions.	☐ Questions can help us find out about the world. Ask and answer scientific questions about the world around them.  covered x 2 optional x 3	☐ Questions can help us find out about the world and can be answered in different ways.  Ask questions about the world around them and explain that they can be answered in different ways.	using scientific enquiry. Ask relevant scientific questions, independently, about the world around them and begin	enquiries. Ask a wide range of relevant scientific questions that broaden their understanding of the	☐ Questions can help us find out about the world and can be answered using a range of scientific enquiries, including fair tests, research and observation. Ask and answer deeper and broader scientific questions about the local and wider world that build on and extend their own and others' experiences and knowledge.
	Measurement	□ AOL: World Place two to three items in order based on length, height or capacity. Assign	AOL: World Simple equipment can be used to measure distance, height, weight and time. With support, use simple equipment, such as timers, rulers and containers, to measure length, height, capacity and time.  covered optional x 3	□ Simple equipment is used to take measurements and observations. Examples include metre sticks, measuring tapes, egg timers and hand lenses. With support, use simple equipment to measure and make observations.  covered x 4 optional	Simple equipment is used to take measurements and observations. Examples include timers, hand lenses, metre sticks and trundle wheels. Use simple equipment to measure and make observations.  covered x 5 optional x 4	thermometers (°C) and metre	☐ Equipment is used to take measurements in standard units. Examples include data loggers plus sensors, timers (seconds, minutes and hours), thermometers (°C), and metre sticks, rulers or trundle wheels (millimetres, centimetres, metres). Take accurate measurements in standard units, using a range of equipment. covered x 2	sound (dB) and temperature (°C); timers (seconds, minutes and hours); thermometers (°C), and measuring tapes (millimetres, centimetres, metres). Take	☐ Specialised equipment is used to take accurate measurements in standard units. Examples include data loggers plus sensors, such as light (lux), sound (dB) and temperature (°C); timers (seconds, minutes and hours); thermometers (°C) and measuring tapes (millimetres, centimetres, metres). Take accurate, precise and repeated measurements in standard units, using a range of chosen equipment.
	Investigation	AOL: Exp A&D Find different ways to do things when playing and exploring and use all their senses in hands on exploration of natural materials.	things out to see if they work, it is called a test. Observe how activities are going and adapt their ideas if necessary.	□ Simple tests can be carried out by following a set of instructions. With support, follow instructions to perform simple tests and begin to talk about what they might do or what might happen.  covered x 3 optional	is a guess at what might happen in an investigation. Follow a set of instructions to perform a range of simple tests, making simple predictions for	prediction is a best guess for what might happen in an	about what might happen in an investigation, based on some prior knowledge or understanding. A fair test is one in which only one variable is changed and all others remain	scientific investigation. A prediction is a statement about what might happen in an investigation based on	
	Observation	AOL: World Talk about some of the things that they have observed using simple scientific vocabulary.	AOL: World With support, observe, record and talk about materials and living things.  covered x 13 optional x 22	can be looked at and compared.  Observe objects, materials, living things and changes over time, sorting and	looked at, compared and grouped according to their features. Observe objects, materials, living things and changes over time, sorting and	which can be compared and grouped according to their features. Make increasingly careful observations, identifying similarities,	things. Observations can be made regularly to identify changes over time. Begin to choose which observations to make and for how long and make systematic, careful observations and		processes and make comparisons. Independently decide which observations to make, when and for how long and

Big idea	Aspect	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					their features and explaining their reasoning.  covered x 4 optional	making simple connections.  covered x 7 optional x 5	covered x 2	using them to make comparisons, identify changes, classify and make links between cause and effect.	observations, using them to make comparisons, identify changes, classify and make links between cause and effect.  optional
Materials	Identification and classification	materials. Everyday materials include plastic, wood and glass. Explore and sort everyday items, with	from different materials. Everyday materials include, wood, plastic, glass, fabric, metal and stone.	paper and fabric. Identify and name what an object is made from, including wood, plastic, glass, metal, water and	□ Some foods, such as ice and chocolate, melt when heated, but then harden (solidify or freeze) when cooled. Observe what happens when a range of everyday materials, including foods, are heated and cooled, sorting and grouping them based on their observations.	□ Light can be reflected from different surfaces. Some surfaces are poor reflectors, such as some fabrics, while other surfaces are good reflectors, such as mirrors. Group and sort materials as being reflective or non-reflective.	Examples of solids include wood, metal, plastic and clay. Liquids move	according to their basic physical properties. Properties include hardness, solubility, transparency, conductivity (electrical and thermal) and magnetism. Compare and group everyday materials by their properties, including hardness, solubility, transparency, conductivity (electrical and thermal) and magnetism.  Covered  Some materials (solutes) will	☐ Heat energy is transferred in three different ways: conduction, convection and radiation. A material that allows heat energy to travel through it is a thermal conductor. Poor thermal conductors are known as thermal insulators. Insulation is important for the survival of many animals. Blubber is a layer of fat that acts as an insulator under the skin of some animals, such as walruses and whales. It is an adaptation that is essential for their survival. Animals with fur, such as polar bears and Arctic foxes, trap a layer of air close to their skin to insulate them from the cold. Investigate and identify good thermal insulators, describing their common features.
	Properties and uses	World Different materials can be used for different things because they are hard, soft, bendy or waterproof. Waterproof items, such as Wellington boots, raincoats and umbrellas, protect us	they are attracted to (pull towards) a magnet. Some metals are magnetic. Other materials are non-magnetic, such as wood, dough and glass. Identify that materials have different properties and explore and sort magnetic and non-magnetic materials through play and exploration.	or not waterproof. Investigate and describe the simple physical properties of some everyday materials, such as hard or soft; stretchy or stiff; rough or	building walls. Many materials are used for more than one purpose, such as metal for cutlery and cars. Compare the suitability of a range of everyday materials for particular uses, including wood, metal, plastic,	□ There are three different rock types: sedimentary, igneous and metamorphic. Sedimentary rocks form from mud, sand and particles that have been squashed together over a long time to form rock. Examples include sandstone and limestone. Igneous rocks are made from cooled magma or lava. They usually contain visible crystals. Examples include pumice and granite. Metamorphic rocks are formed when existing rocks are heated by the magma under the Earth's crust or squashed by the movement of the Earth's tectonic plates. They are usually very hard. Examples include slate and marble. Compare and group rocks based on their appearance, properties or uses. covered □ Some materials have magnetic properties. Magnetic materials are attracted to magnets. All magnetic materials are metals but not all metals are amagnetic. Iron is a magnetic metal. Compare and group materials based on their magnetic properties.	□ Electrical conductors allow electricity to flow through them, whereas insulators do not. Common electrical conductors are metals. Common insulators include wood, glass, plastic and rubber. Describe materials as electrical conductors or insulators. covered	□ Some mixtures can be separated by filtering, sieving and evaporating. Sieving can be used to separate large solids from liquids and some solids from other solids. Filtering can be used to separate small solids from liquids. Evaporating can be used to separate dissolved solids from liquids. Separate mixtures by filtering, sieving and evaporating. covered □ A material's properties dictate what it can be used for. For example, cooking pans are made from metal, which is a good thermal conductor, allowing heat to quickly transfer from the hob to the contents of the pan. Describe, using evidence from comparative or fair tests, why a material has been chosen for a specific use, including metals, wood and glass.	(retina) so that we can see. Describe, using diagrams, how light behaves when reflected off a mirror (plane, convex or concave) and when passing through a lens (concave or convex).
Nature	Identification and classification	things. Care for growing seeds and plants and describe observable features of different types of plants and trees.  covered optional x 2  AOL: World Animals are living things. There are lots of different types of animals. Pets are animals. Name a	AOL: World Plants and trees are living things. They can be identified according to their features, such as leaves, seeds and flowers. Begin to name and group plants and trees according to their observable features. Assign AOL: World Animals are living things. There are different types of animal. Parent and baby mammals include cow and calf, sheep and lamb, and cat and kitten. Parent and baby birds include duck and duckling, chicken and chick, and goose and	Trees that lose their leaves in the autumn are called deciduous trees. Examples include oak, beech and rowan. Trees that shed old leaves and grow new leaves all year round are called evergreen trees. Examples include holly and pine. Identify, compare, group and sort a variety of common wild and garden plants, including deciduous and evergreen trees, based on observable features.	□ A habitat is a place where a living thing lives. A microhabitat is a very small habitat. Identify and name a variety of plants and animals in a range of habitats and microhabitats.  covered x 7 optional x 4 offspring that grow into adults. Different animals	Some animals have skeletons for support, movement and protection. Endoskeletons are those found	amphibians, birds, fish and invertebrates. These groups can be further subdivided. Classification keys are scientific tools that aid the identification of living things. Compare, sort and group living things from a range of environments, in a variety of ways, based on observable features and behaviour.	☐ Flowering plants reproduce sexually. The flower is essential for sexual reproduction. Other plants reproduce asexually. Bulbs, corms and rhizomes are some parts used in asexual reproduction in plants. Group and sort plants by how they reproduce.	□ Classification keys help us identify living things based on their physical characteristics. Use and construct classification systems to identify animals and plants from a range of habitats.  covered x 2 optional  □ Scientists classify living organisms into broad groups according to their characteristics. Vertebrates are an example of a classification group. There are a number of ranks, or levels, within the biological classification system. The first rank is called a kingdom, the second a phylum, then class, order, family, genus



Big idea	Aspect	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		·			habitats and habitats beyond their locality (beaches, rainforests, deserts, oceans and mountains) and what all habitats provide for the things that live there.				
Comparison	Physical things	□ AOL: World Make simple comparisons between objects and materials, such as bigger and smaller, and softer and harder.  Assign	to their shape, colour, material or use. Compare and group objects	☐ Materials can be grouped according to their properties. Compare and group materials in a variety of ways, such as based on their physical properties; being natural or man-made and being recyclable or non-recyclable.	are no longer. Some	☐ Magnets have two poles (north and south). Opposite poles (north and south) attract each other, while like poles (north and north, or south and south) repel each other. Investigate and compare a range of magnets (bar, horseshoe and floating) and explain that magnets have two poles (north and south) and that opposite poles attract each other, while like poles repel each other.	televisions. Electricity can also come from batteries. Batteries eventually run out of power and need to be recycled or recharged. Batteries power devices that can be carried around, such as mobile phones and torches. Compare common household equipment and appliances that are and are not powered by electricity.	and includes these basic stages: birth, growth, reproduction and death. Mammals' life cycles include the stages: embryo, juvenile, adolescent and adult. Amphibians' life cycles include the stages: egg, larva (tadpole), adolescent and	□ Environmental factors can affect the distribution of living things within a habitat. These factors include light (intensity and duration), weather, altitude, soil type and humans, such as when we mow or trample grass. Compare the living things in two contrasting areas of a habitat (top vs bottom of a hill, full sun vs shade, exposed location vs sheltered location or well-trodden path vs unused area).
	Phenomena	World Shadows are made on sunny days. They can be big or small and can change shape and size. Play with objects or their own body outside to create shadows.  Assign	the day. Make a shadow bigger o smaller using toys, play equipment and a light source.	☐ Shadows are normally the same shape as the object that cast them. Shadows change during the day as the Sun appears to change position in the sky. Shadows occur where light is blocked by an opaque object. Compare shadows made by different objects and materials.	quiet a sound is. Pitch is how high or low a sound is. Compare the volume and pitch of sounds made by instruments, their voices or other		increases. Compare how the volume of	motion and slow down moving objects. These forces can be useful, such as bike brakes and parachutes, but sometimes we need to minimise their effects, such as streamlining boats and planes to move through water or air more easily, and using lubricants and ball bearings between two surfaces to reduce friction. Compare and describe, using a range of toys, models and natural objects, the effects of water resistance, air resistance and friction.	lamps, buzzers or motors, which an
Change	Living things	AOL: World Living things change and grow. Say how a living thing has changed over time.	AOL: World Living things change over time. This includes growth and decay. Explore the natural world around them and give simple descriptions, following observation, of changes.  Covered x 3 optional x 4	□ All living things (plants and animals) change over time as they grow and mature. Describe, following observation, how plants and animals change over time.  covered optional	and bulbs need water and warmth to start growing (germinate). As the plant grows bigger, it develops leaves and flowers. Observe and describe how seeds and bulbs change over time	life cycle of flowering plants. The processes of a plant's life cycle include germination, flower production, pollination, seed formation and seed	can change over time and what	age. These stages include baby, infant, toddler, child, adolescent, young adult, adult and senior citizen. Puberty is the transition between childhood and adulthood. Describe the changes as humans develop from birth to old age.	from the past to living species that exist today to hypothesise how living things have evolved over time. Humans and