	0 – 3 Preschool	3 – 4 EYFS 1	Reception EYFS 2	Links to KS1 Curriculum					
EYFS area of Learning	Understanding the World: The Natural World								
Fundamental Knowledge	Repeat actions that have an effect whilst exploring materials inside and outside with different properties. Explore and respond to different natural phenomena in their setting or on trips.	Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and/or different properties. Talk about what they see, using a wide vocabulary. Explore how things work. Plant seeds and care for growing plants. Understand the key features of the life cycle of a plant and an animal. Begin to understand the need to respect and care for the natural environment and all living things. Explore and talk about different forces they can feel. Talk about the differences between materials and changes they notice.	Explore the natural world around them and describe what they see, hear and feel while they are outside. Recognise some environments that are different to the one in which they live. Understand the effect of changing seasons on the natural world around them.	Ask simple questions and recognising that they can be answered in different ways. Use their observations and ideas to suggest answers to questions. Observing closely, using simple equipment. Performing simple tests. Identifying and classifying. Gathering and recording data to help in answering questions.					
Early Learning Goal	xperiences and know what has been read								
	Understand some important processes and	changes in the natural world around them, i	including the seasons and changing states	of matter.					

Year 1	Autumn 1 (1.1)	Autumn 2 (1.2)	Spring 1 (1.3)	Spring 2 (1.4)	Summer 1 (1.5)	Summer 2 (1.6)
	Animals including Human	<u>S.</u>	Materials.	Seasons.	<u>Plants.</u>	
National	Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. Identify and name a variety of common animals that are carnivores, herbivores and omnivores. Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets).		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.	Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies.	Identify and name a varie garden plants, including d trees. Identify and describe the byvariety of common floweritrees.	eciduous and evergreen pasic structure of a
Curriculum			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.			
Year 1	Which animal would	I make the best pet?	Are paper shoes a good idea?	Would it be good if it was always summer?	How does my	garden grow?
	Animals vary in many wa structures e.g. wings, tails etc. They also have differe scales, feathers, hair.	, ears	Objects are made of one or more material. Identify and name	Name the four seasons and identify when in the year they occur.	Name trees and other plar regularly. Describe some of the key f and plants e.g. the shape	leatures of these trees
	Key features can be used to	to identify a range of	common materials (see vocabulary below) Some objects can be made	Describe weather in different seasons over a year.	of the flower/blossom Identify trees which lose to that keep them the whole	heir leaves and those year
Substantive knowledge	Animals eat certain things animals, some eat plants, eat both plants and anima	some	from different materials e.g. plastic, metal or wooden spoons.	Describe days as being longer (in time) in the summer and shorter in the winter.	Identify and name the parts of a plant, recognising that they are not always the same e.g. leaves and stems may not be green	
	[The children need to be a a range of animals in each vertebrate group. They do terms mammal, reptiles et	h not need to use the	Describe materials by obvious properties (see vocabulary below).	Describe other features that change through the year		
	characteristics of each. The children also do not need to use the words carnivore, herbivore and omnivore.]		Some materials (e.g. plastic) can be in different forms with very different properties.			
			With support, create a question to investigate.	Ask simple questions such as: Which is the warmest	Observe development of sunflower seed from planting to flowering (approx. 12 weeks). Measure sunflower height each week in cm. Complete simple preprepared table to record heig	
	Make first-hand, close obs from each of the groups.	Ü	With support, decide how to test absorbency of different materials.	season? Is it always sunny in the summer?		
Disciplinary Knowledge	Identify animals by match images. Compare two animals from groups.		Observe which materials absorb water.	Use a range of sources (books, videos, first hand observation) to	of sunflower. Record development of sur drawings of photographs.	ylower pictorially using
	Classify animals using a r Classify animals according		Fill in preprepared table to show results. Answer the enquiry	find out about the seasons.	Describe the development or in simple written senter	
	Classi	Ruina	question verbally or in simple written sentences.	Research	Observing Char	aga gran Tima
Scientific Enquiry	Classi	gyu y	Comparative/Fair Testing Which materials would	Research What happens in each	Observing Chai How does my sunflowi	
γ '	Y2 Animals' basic needs ir		make waterproof shoes? Y2 Compare the suitability	season? Y3 Humanities Water	Y2 What seeds and bulbs	Ü
	amounts of different types Y2 Explore and compare t	of foods he differences between	of everyday materials and observe changes in solid shapes when force is	cycle Y4 States of matter —	mature plants. Y3 Functions of the differe	nt parts of a plant and
	things that are living, dea never been alive.		applied. Y3 Categorise rocks due to	the water cycle Y4 Recognise that	greater detail about what successfully.	
	Y3 Adaptation of teeth to herbivore)		their properties and understand how fossils are formed.	environments can change and that this can sometimes pose		
Curriculum Links	Y3 Skeletons and muscles of Animals including humans and their uses. Y4 Teeth and the digestive system linking with food chains.		Y4 Categorise solids,	dangers to living things. Y6 Humanities –		
			liquids and gasses and observe their changes when heated or cooled.	Environmental change		
			Y5 Study the properties of everyday materials based on rate of dissolving, separation or filtering, magnetism, conductivity, transparency and			

		solubility and give reasons for these changes.	
Assessment	Body Parts: <u>Y1plan_Body_parts_2020.docx</u>	Waterproof: <u>Y2plan</u> <u>Waterproof - Plan.docx</u>	
Enriching Experiences	Hatton class trip.	Links to D+T	Van Gough Sunflowers Botanical Gardens

Year 2	Autumn 1 (2.1)	Autumn 2 (2.2)	Spring 1 (2.3)	Spring 2 (2.4)	Summer 1 (2.5) Summer 2 (2.6)
	Living things and their	Animals Including Humans.	Use of everyday materials.	Healthy Living.	<u>Plants</u>
National Curriculum	Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other. Identify and name a variety of plants and animals in their habitats, including microhabitats. Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food	Explore and compare the differences between things that are living, dead, and things that have never been alive. Notice that animals, including humans, have offspring which grow into adults.	Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	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.	Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.
Year 2	Living Things and their Habitats	Animals, including Humans	Use of Everyday Materials	Healthy Living	Plants
Substantive Knowledge	Animals and plants live in a habitat to which they are suited, which means that animals have suitable features that help them move and find food and plants have suitable features that help them to grow well. A habitat provides the basic needs of the animals and plants – shelter, food and water and that within a habitat there are different microhabitats [e.g. in a woodland – in the leaf litter, on the bark of trees, on the leaves.] Plants and animals in a habitat depend on each other for food and shelter etc. The way that animals obtain their food from plants and other animals can be shown in a food	All objects are either living, dead or have never been alive. [Dead things include parts of plants and animals that are no longer attached e.g. leaves shells, fur, feathers. An object made of wood is classed as dead. Objects made of rock, metal and plastic have never been alive] Animals, including humans, have offspring which grow into adults. In humans and some animals, these offspring will be young, such as babies or kittens, that grow into adults. In other animals, such as chickens or insects, there may be eggs laid that hatch to young or other stages which then grow to adults. The young of some animals do not look like their parents e.g. tadpoles.	All objects are made of one or more materials that are chosen specifically because they have suitable properties for the task. 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. This can be a property of the material or depend on how the material has been processed e.g. thickness.	All animals, including humans, have the basic needs of feeding, drinking and breathing that must be satisfied in order to survive. 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.	Plants may grow from either seeds or bulbs. These then germinate and grow into seedlings which then continue to grow into mature plants. These mature plants may have flowers which then develop into seeds, berries, fruits etc. Seeds and bulbs need to be planted outside at particular times of year and they will germinate and grow at different rates. 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.
Disciplinary Knowledge	chain. Ask a question about where animals choose to live that is looking for a pattern based on observation. Decide what equipment to use from a choice e.g. magnifying glass. Observe where they find most animals (e.g. worms, ants) and record in premade table. Present results orally and using pictures and simple sentences.	Ask yes/no question to aid sorting. Sort objects into living /dead/never alive. Discuss reasons for placing items in each group.	Identify the question to investigate from a scenario or from a range provided. Choose equipment from a range and decide what to do or what to observe in order to answer the question. Make observations linked to answering a question. Record data using tally chart, pictogram or block chart. Present results orally and using pictures and simple sentences.	Ask simple questions linked to the topic of healthy living. Use a variety of sources of information. Present what they have learnt verbally, using pictures or as an information text.	Ask a question about what might happen. Observe development of seed (bean) and bulb. Complete simple preprepared table to describe observed changes. Record development of seed (bean) and bulb pictorially using drawings or photographs. Describe the observed changes verbally or in simple written sentences.

	Finding patterns	Classifying	Comparative/Fair Test	Research	Observing over time
Scientific	What conditions do ants	Crassiff is	Which material would be	What food do you need in a	What happens to my bean after I have planted it?
Enquiry	prefer to live in?		best for the roof of the	healthy diet and why?	
			little pig's house?		
Curriculum Links	Y1 the children have looked at classifying animals. Y4 Animals (including humans), Living things and their habitats Y2 Identify habitats and how they provide for the basic needs of animals and plants. Y6 Habitats classification and life cycles	Y1 Categorise animals into 5 main groups and distinguish between camivores/herbivores/omnivores. Label basic parts of the human body. Y2 Explore and compare the differences between things that are living, dead, and things that have never been alive. Y3 Adaptation of teeth to diet (camivore, omnivore, herbivore) Y3 Skeletons and muscles of Animals including humans and their uses.	Y5: Properties and changes of materials Y1 Basic understanding of what materials are and where they come from/ what they are made from and compare their properties. Y3 Categorise rocks due to their properties and understand how fossils are formed. Y4 Categorise solids, liquids and gasses and observe their changes when heated or cooled.	Y1 Categorise animals into 5 main groups and distinguish between camivores/herbivores/omnivores. Label basic parts of the human body. Y2 Animals' basic needs including the right amounts of different types of foods Y2 Explore and compare the differences between things that are living, dead, and things that have never been alive. Y3 Adaptation of teeth to diet (carnivore, omnivore, herbivore) Y3 Skeletons and muscles of Animals including humans and their uses. Y4 Teeth and the digestive system linking with food chains. Y5 Describe the changes as humans develop to old age. Y6 Identify the parts of the circulatory system and study different lifestyle choices linked with transportation of nutrients around the body.	Y1 name different plants and understand their basic structure Y3 Functions of the different parts of a plant and greater detail about what plants need to grow successfully.
					<u> </u>
Formative			TAPS Focused As	sessment Tasks	
Assessment Tasks	Woodlouse Habitat:	Living and Non-Living: Y2plan	Materials:		
T CLONED	Y2plan Woodlice habitat <u>- Do.docx</u>	Living and nonliving - Review.docx	Y1plan Materials - _Transparency.docx	(No suitable TAP resource)	Plant Growth: Y2plan Plant growth - Do.docx
Enriching Experiences	Conkers trip.				
Vocabulary		oserve, opaque, transparent and trar ot, seedling,		(e.g. chick/hen, kitten/cat, caterpillar iive, flexible, rigid	/butterfly)

Year 3	Autumn 1 (3.1)	Autumn 2 (3.2)	Spring 1 (3.3)	Spring 2 (3.4)	Summer 1 (3.5)	Summer 2 (3.6)
	Rocks.	Skeletons and muscles.	Forces and Magnets.	<u>Light.</u>	<u>Plants.</u>	Nutrition.
National Curriculum	Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. Describe in simple terms how fossils are formed when things that have lived are trapped within rock. Recognise that soils are made from rocks and organic matter.	Identify that humans and some other animals have skeletons and muscles for support, protection, and movement.	Notice that some forces need contact between 2 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.	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.	Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant. Investigate the way in which water is transported within plants.	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 what they eat.
			Describe magnets as having 2 poles. Predict whether 2 magnets will attract or repel each other, depending on which poles are facing.		Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.	
	Rocks and Fossils	Skeletons and Muscles	Forces and magnets	Light	Plants	Nutrition
Substantive Knowledge	Rock is a naturally occurring material. There are different types of rock e.g. sandstone, limestone, slate etc. which have different properties. [The rock cycle and the formation of igneous, sedimentary and metamorphic rocks is not required at this level] Rocks can be hard or soft. They have different sizes of grain or crystal. They may absorb water. Rocks can be different shapes and sizes (stones, pebbles, boulders). Soils are made up of pieces of ground down rock which may be mixed with plant and animal material (organic matter). The type of rock, size of rock pieces and the amount of organic matter affect the property of the soil. Some rocks contain fossils. Fossils were formed a long time ago. When plants and animals died, they fell to the seabed. They became covered and squashed by other material. Over time the dissolving animal	Humans, and some other animals, have skeletons and muscles which help them move and provide protection and support.	A force is a push or a pull. When an object moves on a surface, the texture of the surface and the object affect how it moves. It may help the object to move better or it may hinder its movement e.g. ice skater compared to walking on ice in normal shoes. A magnet attracts magnetic material. Iron and nickel and other materials containing these are magnetic. The strongest parts of a magnet are the poles. Magnets have two poles – a north pole and a south pole. Like poles repel. Unlike poles attract. For some forces to act, there must be contact e.g. a hand opening a door, the wind pushing the trees. Some forces can act at a distance e.g. magnetism. The magnet does not need to touch the object that it attracts.	We see objects because our eyes can sense light. Dark is the absence of light. We cannot see anything in complete darkness. Some objects are sources of light. Objects are easier to see if there is more light. Some surfaces reflect light. The light from the sun can damage our eyes and therefore we should not look directly at the sun and should protect our eyes in bright light. 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.	Many plants, but not all, have roots, stems/trunks, leaves and flowers/blossom. Roots absorb water and nutrients from the soil and anchor the plant in place. The stem transports water and nutrients/minerals around the plant and holds the leaves and flowers up in the air to enhance photosynthesis, pollination and seed dispersal. The leaves use sunlight and water to produce the plant's food. [No further knowledge of photosynthesis required at this stage] Some plants produce flowers which enable the plant to reproduce. Pollen, which is produced by the male part of the flower, is transferred to the female part of other flowers (pollination). This forms seeds, sometimes contained in berries or fruits which are then dispersed in different ways. Different plants require different conditions for germination and growth.	Animals, unlike plants which can make their own food, need to eat in order to get the nutrients they need. Food contains a range of different nutrients — carbohydrates (including sugars), protein, vitamins, minerals, fats, sugars, water — and fibre that are needed by the body to stay healthy. A piece of food will often provide a range of nutrients.

Services of purpose which considers with all contents of scales in indeed to enter the decidence of the action in indeed to enter the contents of the action in	1 11 : 1					
pastiers to viain form of the process in the continue of the place of	replaced by minerals from the water.					
Clossipping Research Does the length of a persons journal of the length of a magnet offset from the strong of the ordinary of a magnet offset from the strong of the ordinary of a magnet offset from the length of a magnet offs	Ask a range of yes/no questions to aid sorting of rock samples. Use a classification key to identify rock types. Decide ways in which rocks can be sorted. Compare rocks based on obvious observable characteristics. Suggest improvement e.g. a wider range of objects. Suggest new questions arising from	questions linked to skeletons and their purpose. Decide on equipment to measure the length of the femur and the	Decide what to measure or observe to determine whether the size and shape of magnets affect their strength. Make observations linked to answering the question. Measure using standard units where not all the numbers are marked on the scale. Prepare own tables to record data. Refer directly to their evidence when answering their question. Produce written explanation of findings. Suggest improvements e.g. to method of taking measurements. Suggest new questions arising from the investigation. Use results from this investigation to make a	questions linked to a topic. Decide what to measure or observe. Decide how often to take a measurement. Make observations linked to answering the question. Use results from first two measurements to make a prediction about further results. Present data in bar charts with preprepared axes. Refer directly to their evidence when answering their question. Produce a written explanation of their investigation. Suggest improvements e.g. to method of taking measurements.	linked to plants. Decide what to measure or observe e.g. what happens to the celery, how far the colour moves up the stem, difference between different thicknesses of celery etc. Make observations linked to answering the question and record these in a table that they have drawn. Measure using standard units where not all the numbers are marked on the scale, and take repeat readings where necessary. Refer directly to their evidence when answering their question. Produce written description of findings. Suggest improvements e.g. to method of taking measurements. Suggest new questions arising from the	to the foods we eat. Present what they learnt about food groups as information text including a labelled diagram of the proportions needed in a healthy diet. Suggest limitations to research e.g. number of sources of evidence, etc. Suggest new questions arising
Classifying Research Does the length of a persons Funding Patterns Does the length of a person Funding Patterns Does the length of a person Funding Patterns Does the sistence there is set and shope of a magnet agist in the size of the shandow?			1	arising from the		
Y Basic undestanding of what materials are and where they come persons and distinguish between and where they come provided in the basic parts of the human body. Ya Aminals including humans you force is applied. Cumculum tinks Y States of matter (including the water cycle) Y States of matter (including the water cycle) Y States of matter (including the water cycle) Y States of matter (including the materials of the diagrams and things that have neave been alive. Y States of matter (including the right amounts of chains.) Y States of matter (including the right amounts of chains.) Y States o	Classifying	Does the length of a persons femur impact how far they can	Does the size and shape of a magnet affect how	Comparative Test/Fair Test How does the distance between the shadow puppet and the screen affect the size of the	What happens to celery when it is left in a glass of	Why do different types of vitamins keep us healthy and which foods can we find them
Formative Assessment Tasks	understanding of what materials are and where they come from/ what they are made from and compare their properties. Y2 Compare the suitability of everyday materials and observe changes in solid shapes when force is applied. Y4 States of matter (including the water cycle) Y5 Study the properties of everyday materials based on rate of dissolving, separation or filtering, magnetism, conductivity, transparency and solubility and give reasons for these	main groups and distinguish between carnivores/herbivores/omnivores. Label basic parts of the human body. Y3 Animals including humans Y2 Animals' basic needs including the right amounts of different types of foods Y2 Explore and compare the differences between things that are living, dead, and things that have never been alive. Y4 Teeth and the digestive system linking with food chains. Y5 Describe the changes as humans develop to old age. Y6 Identify the parts of the circulatory system and study different lifestyle choices linked with transportation of nutrients	suitability of everyday materials and observe changes in solid shapes when force is applied. Y5 Air resistance, water resistance and friction linked with the Earth's	Y4 Basic understanding of how sound is made and how it travels. Y6 Light travels in straight lines and explain this using their	understand their basic structure Y2 What seeds and bulbs need to grow into mature	main groups and distinguish between camivores/herbivores/omnivores. Label basic parts of the human body. Y2 Animals' basic needs including the right amounts of different types of foods. Y2 Explore and compare the differences between things that are living, dead, and things that have never been alive. Y4 Teeth and the digestive system linking with food chains. Y3 Skeletons and muscles of Animals including humans and their uses. Y5 Describe the changes as humans develop to old age. Y6 Identify the parts of the circulatory system and study different lifestyle choices linked with transportation of nutrients around the body. Y6 Categorise plants, micro-

	Rock Report: <u>Y3plan</u> <u>Rocks report -</u> <u>Review.docx</u>	Skeleton Qs: <u>Y3plan Skeleton Qs</u> <u>- Plan.docx</u>	Magnet Tests: <u>Y3r</u> <u>Magnet tests - Do.</u>		Make Shadows: <u>Y3plan</u> <u>Make shadows -</u> <u>Do.docx</u>	Function of a stem: <u>Y3plan</u> <u>Function of stem -</u> <u>Review.docx</u>	
Enriching Experiences							
Vocabulary			disq Nut sup Lig	persal), rition, port, p nt sour	nutrients, minerals, soil, ab	ein, vitamins, fibre, fat, water, sk ne ve	,

Year 4	Autumn 1 (4.1)	Autumn 2 (4.2)	Spring 1 (4.3)	Spring, 2 (4.4)	Summer 1 (4.5)	Summer 2 (4.6)
	Digestive System.	Sound	States of matter	Electricity	Classification and food chains	Respecting our environment.
National Curriculum	Describe the simple functions of the basic parts of the digestive system in humans. Identify the different types of teeth in humans and their simple functions	Identify how sounds are made, associating some of them with something vibrating. Recognise that vibrations from sounds travel through a medium to the ear. Find patterns between the pitch of a sound and features of the object that produced it. Find patterns between the volume of a sound and the strength of the vibrations that produced it. Recognise that sounds get fainter as the distance from the sound source increases.	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.	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.	Recognise that living things can be grouped in a variety of ways. Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.	Recognise that environments can change and that this can sometimes pose dangers to living things.
	Digestive System	Sound	States of Matter	Electricity	Classification and food chains	Respecting our environment
Substantive Knowledge	Food enters the body through the mouth. Digestion starts when the teeth start to break the food down. 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 when you go to the toilet. Humans have four types of teeth: incisors for cutting; canines for tearing; and molars and premolars for grinding (chewing).	A sound produces vibrations which travel through a medium from the source to our ears. Different mediums such as solids, liquids and gases can carry sound, but sound cannot travel through a vacuum (an area empty of matter). 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 which decreases as they travel through the medium. Therefore, sounds decrease in volume as you move away from the source. A sound insulator is a material which blocks sound effectively. 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.	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 liquid can be poured and keeps a level, horizontal surface. A gas fills all available space; it has no fixed shape or volume. Granular and powdery solids like sand can be confused with liquids because they can be poured, but when poured they form a heap and they do not keep a level surface when tipped. Each individual grain demonstrates the properties of a solid. Melting is a state change from solid to liquid. Freezing is a state change from liquid to solid. The freezing point of water is O°C. Boiling is a change of state from liquid to gas that happens when a liquid is heated to a specific temperature and bubbles of the gas can be seen in the liquid. Water boils when it is heated to 100 oC. Evaporation is the same state change as boiling (liquid to gas), but it happens slowly at lower temperatures and only at the surface of the liquid. Evaporation happens more quickly if the temperature is higher, the liquid is spread out or it is windy. Condensation is the change back from a gas to a liquid caused by cooling. Water at the surface of seas, rivers etc.	Many household devices and appliances run on electricity. Some plug in to the mains and others run on batteries. 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.	Living things can be grouped (classified) in different ways according to their features. 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 (Year 2 learning). These environments also change with the seasons; different living things can be found in a habitat at different times of the year. Living things can be classified as producers, predators and prey according to their place in the food chain.	These environments may change naturally e.g. through flooding, fire, earthquakes etc. Humans also cause the environment to change. This can be in a good way (i.e. positive human impact, such as setting up nature reserves) or in a bad way (i.e. negative human impact, such as littering).

			evaporates into water vapour (a gas). This rises, cools and condenses back into a liquid forming clouds. When too much water has condensed, the water droplets in the cloud get too heavy and fall back down			
			as rain, snow, sleet etc. and drain back into rivers etc. This is known as precipitation. This is the water cycle.			
	Ask a range of questions linked to topic of teeth. Research work of dentist from	Ask a range of questions linked to the topic of sound.	Ask a range of questions linked to the topic of States of Matter. Decide what to measure or	Ask a range of questions linked to electrical circuits.	Ask a range of yes/no questions to aid sorting.	Suggest new questions arising from the
	range of sources (including a visit from a dentist if possible).	If there is a pattern, is it the same in every area of the school?	observe.	Decide what to measure or observe.	Use a classification key to identify animals found during playground or pond	investigation.
	Present what they learnt verbally, using labelled diagrams or as information text.	Decide what and where to measure.	Make observations linked to answering the question.	Make observations linked to answering the question.	investigation. Decide ways in which animals can be sorted.	
	Be able to answer their questions using simple scientific language.	Take measurements linked to answering the question.	Measure using standard units where not all the numbers are marked on the scale, and take repeat readings where	Measure using standard units where not all the numbers are marked on the scale.	Compare animals based on obvious observable characteristics.	
	Suggest limitations e.g. limited range of evidence.	Use dataloggers to measure over time. Refer directly to their	necessary.	Use dataloggers with light sensor if available.	Spot patterns in the data particularly two criteria with no	
Disciplinary Knowledge	Suggest new questions arising from the investigation.	evidence when answering their question.	Prepare own tables to record data. Present data in time graphs. Refer directly to evidence when answering	Present data in line graph.	examples e.g. there are no living things with wings and no legs. Draw simple conclusions for	
		Provide oral or written explanations for findings.	question. Provide oral or written explanations for findings.	Refer directly to their evidence when answering their question.	patterns. Suggest improvement e.g. a wider range of animals.	
		Suggest improvements e.g. to method of taking measurements.	Suggest improvements e.g. to method of taking measurements.	Produce written explanation of findings. Suggest improvements e.g.		
		Suggest new questions arising from the investigation.	Suggest new questions arising from the investigation.	to method of taking, measurements.		
		Use results from investigation to make a prediction about a	Use results from investigation to make a prediction about a further result.	Suggest new questions arising from the investigation.		
		further result.		Use results from first two measurements to make a prediction about further results.		
Scientific Enquiry	Research How do dentists fix broken teeth?	Pattern Seeking Is there a link between how loud it is in school and the time of day?	Observing over time How does the level of water in a glass change when left on the windowsill?	Comparative test/Fair test How does the thickness of a conducting material affect how bright the lamp is?	Classification	Research What can be done to help the environment?
	Y1 Categorise animals into 5 main groups and distinguish between carnivores/herbivores/omnivores. Label basic parts of the human body.	Y6 light travels in straight lines and explain this using their knowledge on shadows.	Geography 3.2 Water cycle and rivers. Y1 Basic understanding of what materials are and where they come from/ what they are	Y6 Relationship between a higher voltage and the associated outcomes. Represent components of circuits in diagrams.	Y1 Categorise animals into 5 main groups and distinguish between carnivores/herbivores/omnivores. Y3 Adaptation of teeth to diet	Y5 Basic understanding of recycling and micro-organisms causing decay.
	Y2 Animals' basic needs including the right amounts of different types of foods		made from and compare their properties.		(carnivore, omnivore, herbivore) Y3 Skeletons and muscles of animals including humans and	
	Y2 Explore and compare the differences between things that are living, dead, and things that have never been alive.		Y2 Compare the suitability of everyday materials and observe changes in solid shapes when force is applied.		their uses. Y6 Categorise plants, micro- organisms and animals.	
Curriculum Links	Y3 Adaptation of teeth to diet (carnivore, omnivore, herbivore)		Y3 Categorise rocks due to their properties and understand how fossils are formed.			
	Y3 Skeletons and muscles of Animals including humans and their uses.		Y5 Study the properties of everyday materials based on rate of dissolving, separation or filtering, magnetism,			
	Y4 Teeth and the digestive system linking with food chains.		conductivity, transparency and solubility and give reasons for these changes.			
	Y6 Identify the parts of the circulatory system and study different lifestyle choices linked with transportation of nutrients around the body.		Y5 Air resistance, water resistance and friction linked with the Earth's gravitational pull.			

Formative	TAPS Focused Assessment Tasks								
Assessment Tasks	(No suitable TAPS assessment)	Pitch: <u>Y4plan Pitch -</u> <u>Plan.docx</u>	Drying: <u>Y4plan Drying -</u> <u>Plan.docx</u>	Electricity Conductors: Y4plan Elect conductors - <u>Review.docx</u>	Environment Survey: <u>Y4plan Loca</u>	l survey - Do.docx			
Enriching Experiences	Visit from dentist								
Vocabulary	Classification, classification keys, environment, human impact, migrate, hibernate Digestive system, digestion, saliva, oesophagus, stomach, small intestine, large intestine, rectum, anus, teeth, incisor, canine, molar, premolars, herbivore, camivore, omnivore, producer, predator, prey, food chain Vocabulary Vocabulary Solid, liquid, gas, heating, cooling, state change, melting, freezing, melting point, boiling, boiling point, evaporation, condensation, temperature, water cycle Sound, source, vibrate, vibration, travel, pitch (high, low), volume, faint, insulation Electricity, electrical appliance/device, electrical circuit, complete circuit, component, cell, battery, positive, negative, connect/connections, loose connection, short circuit, crocodile clip, bulb, switch, buzzer, motor, conductor, insulator, metal, non-metal, symbol								

Year 5	Autumn 1 (5.1)	Autumn 2 (5.2)	Spring 1 (5.3)	Spring 2 (5.4)	Summer 1 (5.5)	Summer 2 (5.6)
	Human Development (including puberty).	Mixtures and reactions.	Space	Forces	Life cycles	Recycling and decay
	Describe the changes as humans develop to old age. Describe the differences in the life cycles of a mammal, an amphibian, an	Start slightly early- Week 6	Describe the movement of the Earth and other planets relative to the sun in the solar system.	Identify the effects of air resistance, water resistance and friction, that act between moving surfaces.	Describe the life process of reproduction in some plants and animals.	Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday
National Curriculum	insect and a bird.	Demonstrate that dissolving, mixing and changes of state are reversible changes. Compare and group together everyday materials on the basis of their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets. Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution. Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.	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.	Recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect.		materials, including metals, wood and plastic. Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.
Year 5	Human Development (Including Puberty)	Mixtures and reactions.	Space	Forces	Life cycles	Recycling and decay
	Sexual reproduction occurs through pollination, usually involving wind or insects.	Materials have different uses depending on their properties and state (liquid, solid, gas).	The Sun is a star. It is at the centre of our solar system. There are 8 planets [can	A force causes an object to start moving, stop moving, speed up, slow down or change direction.	As part of their life cycle, plants and animals reproduce.	Identify materials that will decay- fruit, veg, plants. — It is only things that are living that decay?
	At puberty, a child's body changes and develops primary and secondary sexual	Properties include hardness, transparency, electrical and thermal	choose to name them, but not essential]. These travel around the Sun in fixed orbits.	Gravity is a force that acts at a distance. Everything is pulled to the Earth by gravity.	Most animals reproduce sexually. This involves two parents where the sperm from the male fertilises the female egg.	Describe the process of decay and why it is important.
	characteristics. This enables the adult to reproduce. [Further details of content to be	conductivity and attraction to magnets.	Earth takes $365\frac{1}{4}$ days to complete its orbit around the Sun.	This causes unsupported objects to fall.	Animals, including humans, have offspring which grow into adults.	Test rates of decay and describe factors that will increase the rate of decay- moisture, heat etc.
	found in Changing Me unit in PSHE]	Some materials will dissolve in a liquid and form a solution while others are insoluble and form sediment.	The Earth rotates (spins) on its axis every 24 hours. As Earth rotates half	Air resistance, water resistance and friction are contact forces that act between moving surfaces.	In humans and some animals, these offspring will be born live, such as babies or kittens, and then grow into adults.	Know that some materials can be recycled.
Substantive Knowledge		Mixtures can be separated by filtering, sieving and evaporation. Some changes to materials	faces the Sun (day) and half is facing away from the Sun (night). As the Earth rotates, the Sun appears to move	The object may be moving through the air or water, or the air and water may be moving over a stationary object.	In other animals, such as chickens or snakes, there may be eggs laid that hatch to young which then grow to adults.	
		such as dissolving, mixing and changes of state are reversible, but some changes such as burning wood, rusting and mixing vinegar with bicarbonate of soda result in the	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.	A mechanism is a device that allows a small force to be increased to a larger force. The pay back is that it requires a greater movement.	Some young undergo a further change before becoming adults e.g. caterpillars to butterflies. This is called a metamorphosis. Plants reproduce both	
		formation of new materials and these are not reversible.		The small force moves a long distance and the resulting large force moves a small distance, e.g. a crowbar or bottle top remover.	sexually and asexually. Bulbs, tubers, runners and plantlets are examples of asexual plant reproduction which involves only one parent.	
				Pulleys, levers and gears are all mechanisms, also		

	Ask a range of questions and	Be able to ask a	Ask a range of questions	known as simple machines. Ask a range of questions	Gardeners may force plants to reproduce asexually by taking cuttings. When babies are young, they grow rapidly. They are very dependent on their parents. As they develop, they learn many skills. Ask a range of questions and	Be able to use data to show
Disciplinary Knowledge	identify the type of enquiry that will help to answer the questions. Decide how often to make observations and how these should be recorded. Be able to answer their questions, describing the change over time. Provide oral and written explanations for their findings.	range of Yes/No questions to aid sorting materials and decide which ways of sorting will give useful information. Identify specific clear questions that will help to sort materials without ambiguity. Be able to compare not only based on physical properties but also on knowledge gained through previous enquiry.	(recognising that some can be answered through research and others may not). Choose suitable sources to use. Present research in a range of ways e.g. different graphic organisers. Be able to answer question using scientific evidence gained from a range of sources. Be able to talk about degree of trust in the sources used.	and identify the type of enquiry that will help to answer questions. Recognise and control variables. Measure using standard units using equipment that has scales involving decimals. Prepare own tables to record data. Choose an appropriate form of graph or chart to present results. Be able to answer question, describing causal relationships. Provide oral and written explanations for findings. Explain their degree of trust in their results e.g. precision in taking measurements, variables that may not have been controlled, and accuracy of results. Ask further questions based on results.	identify the type of enquiry that will help to answer the questions. Recognise variables [country where found, nocturnal/diurnal etc] and understand that they cannot be completely controlled. Prepare own tables to record data. Be able to answer their questions identifying patterns. Provide oral and written explanations for their findings. Explain their degree of trust in their results e.g. range of animals surveyed, variables that may not have been controlled. Create labelled diagram of life cycle of butterfly using own observations. Explain their degree of trust in their results e.g. were all stages observed. Use results to make predictions about other life cycles.	that materials that are grouped together have more in common than with items in other groups. Be able to explain using evidence that the branching database or classification key will only work for the materials it was created for.
Enquiry Type	Pattern Seeking Is there a relationship between a mammal's size and its gestation period?	Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings where appropriate	Research How have our ideas about the solar system changed over time?	Comparative/Fair Test: Which shape parachute takes the longest to fall? Measure how far a toy car can travel on different surfaces in school.	Observation over time How does a butterfly change as it develops from egg to adult?	Observation over time. Does temperature affect the rate of decay?
Curriculum Links	Y1 Categorise animals into 5 main groups and distinguish between carnivores/herbivores/omnivores. Label basic parts of the human body. Y2 Animals and their needs Y2 Explore and compare the differences between things that are living, dead, and things that have never been alive. Y3 Adaptation of teeth to diet (carnivore, omnivore, herbivore) Y3 Skeletons and muscles of Animals including humans and their uses. Y1 Label basic parts of the human body. Y3 Adaptation of teeth to diet (carnivore, omnivore, herbivore)	Y3 Categorise rocks due to their properties and understand how fossils are formed. Y4 Categorise solids, liquids and gasses and observe their changes when heated or cooled.	Y5 Air resistance, water resistance and friction linked with the Earth's gravitational pull. Y3 Exploring magnetism	Y3 Exploring magnetism, friction and upthrust in water	Y2 Animals' basic needs including the right amounts of different types of foods Y2 Explore and compare the differences between things that are living, dead, and things that have never been alive. Y3 Skeletons and muscles of Animals including humans and their uses. Y4 Teeth and the digestive system linking with food chains.	Y1 Basic understanding of what materials are and where they come from/ what they are made from and compare their properties.
Formative Assessment Tasks		Sugar Cubes: <u>Y5plan</u> ugar cubes - Do.docx	TAPS Focused Solar System Research: Y5plan Solar system research - Review.docx	Assessment Tasks Aquadynamics: <u>Y5plan</u> <u>Aquadynamics -</u> <u>Review.docx</u>	Life Cycles: <u>Y5plan Life</u> cycles - Review.docx	

Enriching Experiences							
Vocabulary	life cycle, reproduce, sexual, fertilises, asexual, runners, tubers, bulbs, cuttings [Vocabulary from Changing Me unit in PSHE curriculum – to be taught in line with academy RSE policy: puberty menstruation periods sanitary towels sanitary pads tampons ovary vagina womb/uterus sperm semen testicles/testes erection ejaculation wet dream larynx facial hair growth spurt hormone] Thermal/electrical insulator/conductor, change of state, mixture, dissolve, solution, soluble, insoluble, filter, sieve, reversible/non-reversible change, burning, rusting, Sun, Moon, Earth, planets (Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune), Solar System, rotate, star, orbit Force, gravity, air resistance, water resistance, friction, mechanisms, simple machines, levers, pulleys, gears						

<u>Year 6</u>	Autumn 1 (6.1)	Autumn 2 (6.2)	Spring 1 (6.3)	Spring 2 (6.4)	Summer 1 (6.5)	Summer 2 (6.6)
	Classification	Circulatory System	Evolution and Inheritance	Electricity	Light	Transition to secondary science.
National Curriculum	Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals. Give reasons for classifying plants and animals based on specific characteristics	Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. Describe the ways in which nutrients and water are transported within animals, including humans. Recognise the impact of diet, exercise, drugs and lifestyle on the way their body's function.	Recognise that living things have changed over time and lossils 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.	Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in a circuit. 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.	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	This topic has been added to prepare the children for KS3 science (in particular, chemistry). Chemistry is not taught at all in Y6. After recent conversations with local secondary schools, they feel that the children are beginning KS3 with LKS2 level experience of chemistry. We need to provide more activities to support this.
Year 6	Classification	Circulatory System and keeping healthy.	Evolution and Inheritance	Electricity	Light	Transition to secondary science.
Substantive Knowledge	Living things can be formally grouped according to characteristics. Plants and animals are two main groups but there are other livings things that do not fit into these groups e.g. micro-organisms such as bacteria and yeast, and toadstools and mushrooms. Plants can make their own food whereas animals cannot. Animals can be divided into two main groups: 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.	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. They can affect how well out heart and lungs work, how likely we are to suffer from conditions such as diabetes, how clearly we think, and generally how fit and well we feel. Some conditions are caused by deficiencies in our diet e.g. lack of vitamins. [Further details of content to be found in Healthy Me unit of PSHE curriculum]	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. 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 a long time ago and provide evidence to support the theory of evolution. More recently, scientists such as Darwin and Wallace observed how living things adapt to different environments to become distinct varieties with their own characteristics.	Adding more cells to a complete circuit will make a bulb brighter, a motor spin faster or a buzzer make a louder sound. The same thing happens if a battery with a higher voltage is used. Adding more bulbs, motors or buzzers to a circuit will make each bulb less bright, each motor spin more slowly and each buzzer quieter. Tuming 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. Recognised circuit symbols can be used to draw simple circuit diagrams.	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.	Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution. Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.

Disciplinary Knowledge	Be able to ask a range of Yes/No questions to aid sorting and decide which ways of sorting will give useful information. Identify specific clear questions that will help to sort without ambiguity. Be able to compare not only based on physical properties but also on knowledge gained through previous enquiry. Create branching databases (tree diagrams) and keys to enable others to name livings things. Be able to talk about the features that living things share and do not share based on the information in the key. Be able to use data to show that livings things that are grouped together have more things in common than with things in other groups. Be able to explain using evidence that the branching database or classification key will only work for the living things it was created for.	Ask a range of questions and identify the type of enquiry that will help to answer the questions. Recognise and control variables where possible. Prepare own tables to record data, including columns for taking repeat readings. Choose an appropriate form of presentation, including line graphs. Provide oral and written explanations for their findings. Explain their degree of trust in their results e.g. precision in taking measurements, variables that may not have been controlled, and accuracy of results. Use test results to ask further questions and make predictions for further investigations. Ask a range of questions (recognising that some can be answered through research and others may not). Choose suitable sources of information. Choose how to present learning e.g. different graphic organisers. Be able to answer their questions using scientific evidence gained from a range of sources. Be able to talk about their degree of trust in the sources they have used.	Ask a range of questions (recognising that some can be answered through research and others may not). Choose suitable sources to use. Present research in a range of ways e.g. different graphic organisers. Be able to answer question using evidence gained from a range of sources. Be able to talk about degree of trust in the sources used.	Ask a range of questions and identify the type of enquiry that will help to answer the questions. Recognise and control variables. Measure using light sensor (if available). Prepare own tables to record data. Be able to answer their question, describing causal relationships. Provide oral and written explanations for their findings. Explain their degree of trust in their results e.g. precision in taking measurements, variables that may not have been controlled, and accuracy of results. Use test results to ask further questions and make predictions for further investigations.	Ask a range of questions about the formation of shadows and identify the type of enquiry that will help to answer the questions e.g. Recognise variables and understand that they cannot be completely controlled. Prepare own tables to record data. Be able to answer their questions identifying patterns. Provide oral and written explanations for their findings. Explain their degree of trust in their results e.g. precision in taking measurements, variables that could not be controlled, and accuracy of results. Use test results to ask further questions and make predictions for further investigations.			
Scientific Enquiry	Classification.	Observation over time How does my heart rate change over the day? Research How might diet choices impact on our ability to	Research What happened when Charles Darwin visited the Galapagos islands?	Fair test Does the length of the wire affect the brightness of the bulb in a circuit?	Pattern Seeking How are shadows affected by the type of material that an object is made from?	Observation- Observing changes in states of matter.		
Curriculum Links		leam?				KS3		
Formative		TAPS Focused Assessment Tasks						
Assessment Tasks	Invertebrate Research: Y6plan Invertebrate research <u>- Review.docx</u>		Heart Rate Poses: <u>Y6plan</u> <u>Heartrate pose - Plan.docx</u>	Light Questions: <u>Y6plan</u> <u>Light questions -</u> <u>Plan.docx</u>	Bulb Brightness: <u>Y6plan</u> <u>Bulb brightness - Plan.docx</u>	(No suitable TAPS assessment)		
Enriching experiences	James Dyson Box delivered.					Visit to local secondary school for chemistry session in science lab.		
Vocabulary	Heart, pulse, rate, pumps, bloogfspring, sexual reproduction,	od, blood vessels, transported, vary, characteristics, adaptec t diagram, circuit symbol, cell	ertebrates, warm-blooded, cold- lungs, oxygen, carbon dioxide, l, environment, inherited, specie , battery, bulb, buzzer, motor, s liquid, gas, molecules.	nutrients, water, muscles, cy s, fossils, evolve, evolution	cle, circulatory system			