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	AUTUMN	SPR	ING	SUMMER							
YEAR ONE	EVERYDAY MATERIALS Distinguish between an object and the material from which it is made Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock 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. LET'S GO SCIENCE TRAIL – Seasonal Changes	ANIMALS, INCLUDING HUMANS Pupils should be taught to: 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) Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. LET'S GO SCIENCE TRAIL – Habitats in the school grounds	PLANTS Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees Identify and describe the basic structure of a variety of common flowering plants, including trees. LET'S GO SCIENCE TRAIL – Habitats in the school grounds	ANIMALS, INCLUDING HUMANS Pupils should be taught to: 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) Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. LET'S GO SCIENCE TRAIL – Revisit Seasonal Changes	SEASONAL CHANGES Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies. LET'S GO SCIENCE TRAIL – Revisit Seasonal Changes SCIENTIST – Mae Jemison						
YEAR TWO	USE OF EVERYDAY MATERIALS 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. LET'S GO SCIENCE TRAIL – Use Our Senses (Touch)	ANIMALS, INCLU Notice that animals, including grow int Find out about and describe including humans, for sun Describe the importance for h right amounts of different the LET'S GO SCIENCE TRAIL	humans, have offspring which o adults the basic needs of animals, vival (water, food and air) tumans of exercise, eating the types of food, and hygiene.	PLA Observe and describe how seed pla Find out and describe how p suitable temperature to LIVING THINGS AND Explore and compare the differ living, dead, and things the Identify that most living things living suited and describe how differenceds of different kinds of animals and name a variety habitats, including Describe how animals obtain the animals, using the idea of a simple name different suited the compared to the compa	ds and bulbs grow into mature ints ants need water, light and a grow and stay healthy. THEIR ENVIRONMENT ences between things that are at have never been alive we in habitats to which they are in habitats provide for the basic hals and plants, and how they each other of plants and animals in their g micro-habitats neir food from plants and other ole food chain, and identify and sources of food. RAIL – Plant Diversity						

	FORCES AND MAGNETS	ROCKS	PLANTS
	Compare how things move on different surfaces	Compare and group together different kinds of rocks on the	Identify and describe the functions of different parts of
	Notice that some forces need contact between two objects,	basis of their appearance and simple physical properties	flowering plants: roots, stem/trunk, leaves and flowers
	but magnetic forces can act at a distance	Describe in simple terms how fossils are formed when things that	Explore the requirements of plants for life and growth (air, light,
	Observe how magnets attract or repel each other and attract	have lived are trapped within rock	water, nutrients from soil, and room to grow) and how they vary
	some materials and not others	Recognise that soils are made from rocks and organic matter.	from plant to plant
	Compare and group together a variety of everyday materials		Investigate the way in which water is transported within plants
	on the basis of whether they are attracted to a magnet, and	LET'S GO SCIENCE TRAIL -Rock Hunting	Explore the part that flowers play in the life cycle of flowering
	identify some magnetic materials	C C C C C C C C C C C C C C C C C C C	plants, including pollination, seed formation and seed dispersal.
	Describe magnets as having two poles		
	Predict whether two magnets will attract or repel each other,		ANIMALS, INCLUDING HUMANS
	depending on which poles are facing.		Identify that animals, including humans, need the right types
			and amount of nutrition, and that they cannot make their own
	LIGHT		food; they get nutrition from what they eat
	Recognise that they need light in order to see things and that		Identify that humans and some other animals have skeletons
	dark is the absence of light		and muscles for support, protection and movement.
	Notice that light is reflected from surfaces Recognise that light from the sun can be dangerous and that		LET'S GO SCIENCE TRAIL – Habitat Estate Agents
	there are ways to protect their eyes		LET 3 GO SCIENCE TRAIL - Habitat Estate Agents
YEAR THREE	Recognise that shadows are formed when the light from a light		
Ξ	source is blocked by an opaque object		
2	Find patterns in the way that the size of shadows change.		SCIENTIST – George Washington Carver
EA	,		ŭ G
-	LET'S GO SCIENCE TRAIL -A Light Introduction		
	LIVING THINGS AND THEIR HABITATS	ELECTRICITY	STATES OF MATTER
	Recognise that living things can be grouped in a variety of	Identify common appliances that run on electricity	Compare and group materials together, according to whether
	ways	Construct a simple series electrical circuit, identifying and	they are solids, liquids or gases
	Explore and use classification keys to help group, identify and	naming its basic parts, including cells, wires, bulbs, switches and	Observe that some materials change state when they are
	name a variety of living things in their local and wider environment	buzzers	heated or cooled, and measure or research the temperature at
	Recognise that environments can change and that this can	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	which this happens in degrees Celsius (°C) Identify the part played by evaporation and condensation in
	sometimes pose dangers to living things	with a battery	the water cycle and associate the rate of evaporation with
	30110111103 pose dangers to living timigs	Recognise that a switch opens and closes a circuit and	temperature.
	ANIMALS, INCLUDING HUMANS	associate this with whether or not a lamp lights in a simple series	ionipolatore.
	Describe the simple functions of the basic parts of the digestive	circuit	LET'S GO SCIENCE TRAIL - Residential Visit
	system in humans	Recognise some common conductors and insulators, and	
	Identify the different types of teeth in humans and their simple	associate metals with being good conductors.	
	functions		
	Construct and interpret a variety of food chains, identifying	SOUND	SCIENTIST – Garrett Morgan
	producers, predators and prey.	Identify how sounds are made, associating some of them with	
	LET'S GO SCIENCE TRAIL - Plant Diversity (2)	something vibrating Recognise that vibrations from sounds travel through a medium	
	LLI 3 GO SCILIGEL IRAIL - HUITI DIVEISITY (2)	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	
5		Recognise that sounds get fainter as the distance from the	
YEAR FOUR		sound source increases.	
YE,		LETTIC CO. COLENIOS TRAIL. C	
		LET'S GO SCIENCE TRAIL –Sound Detectives	

	FORCES	EARTH AND SPACE	PROPERTIES AND CHANGES OF MATERIALS
	Explain that unsupported objects fall towards the Earth	Describe the movement of the Earth, and other planets, relative	Compare and group together everyday materials on the basis
	because of the force of gravity acting between the Earth and	to the Sun in the solar system	of their properties, including their hardness, solubility,
	the falling object	Describe the movement of the Moon relative to the Earth	transparency, conductivity (electrical and thermal), and
	Identify the effects of air resistance, water resistance and	Describe the Sun, Earth and Moon as approximately spherical	response to magnets
	friction, that act between moving surfaces	bodies	Know that some materials will dissolve in liquid to form a
	Recognise that some mechanisms, including levers, pulleys and	Use the idea of the Earth's rotation to explain day and night	solution, and describe how to recover a substance from a
	gears, allow a smaller force to have a greater effect.	and the apparent movement of the sun across the sky.	solution
			Use knowledge of solids, liquids and gases to decide how
	LET'S GO SCIENCE TRAIL – Forces in the park	LET'S GO SCIENCE TRAIL – Earth, Sun and Shadows	mixtures might be separated, including through filtering, sieving
			and evaporating
			Give reasons, based on evidence from comparative and fair
			tests, for the particular uses of everyday materials, including
			metals, wood and plastic
			Demonstrate that dissolving, mixing and changes of state are
			reversible changes
			Explain that some changes result in the formation of new
			materials, and that this kind of change is not usually reversible,
			including changes associated with burning and the action of
			acid on bicarbonate of soda.
			ALL LIVING THINGS AND THEIR ENVIRONMENT
			Describe the differences in the life cycles of a mammal, an
			amphibian, an insect and a bird
			Describe the life process of reproduction in some plants and
			animals.
			ANIMALS, INCLUDING HUMANS
			Describe the changes as humans develop to old age.
/E			LET'S GO SCIENCE TRAIL - Plant Reproduction
FIVE			
2			
YEAR			
_			SCIENTIST – David Attenborough

YEAR SIX

ALL LIVING THINGS AND THEIR HABITATS

Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals

Give reasons for classifying plants and animals based on specific characteristics.

EVOLUTION AND INHERITANCE

Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago

Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.

LET'S GO SCIENCE TRAIL - Fossil Hunting

ANIMALS, INCLUDING HUMANS

Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood

Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function

Describe the ways in which nutrients and water are transported within animals, including humans.

LET'S GO SCIENCE TRAIL - The Human Life Cycle

LIGHT

Recognise that light appears to travel in straight lines
Use the idea that light travels in straight lines to explain that
objects are seen because they give out or reflect light into the
eve

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.

ELECTRICITY

Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the 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.

LET'S GO SCIENCE TRAIL - Electricity in Action

INVENTOR - Stephen Hawking