**Year 1 Knowledge Objectives and Knowledge Goals – SCIENCE** 

	The Human Body	Animals and their Needs	Seasons and Weather	Taking Care of the Earth	Plants	Materials and Magnets
Week 1	To know our body has five senses	To name and describe common animals	To name and describe the four seasons	To describe different ways we can take care of the Earth	To know what plants, need in order to grow	To recognise everyday materials
	We have five senses: sight,	There are many different types of animals  Some animals live in water,	Our four seasons are spring, summer, autumn and winter Colder weather comes in	Humans do things that can damage the Earth  People are causing pollution	Plants need warmth, light and water to grow  Plants grow from seeds	Objects all around us are made from types of materials  Some everyday materials that
	hearing, touch (feeling), taste, smell	some live on land, some fly in the sky	autumn and winter. Warmer weather comes in spring and summer.	that is damaging our earth  When forests are cut down	If seeds do not have warmth, light and water, they may not	objects are made from include: wood, plastic, glass and metal
	We use: Our eyes to see Our ears to hear Our tongues to taste Our nose to smell Our skin to feel and hands to touch (feel)	Scientists group animals according to their features	Our days of sunlight are longest in the summer and shortest in the winter	the wild animals' environment is lost  Resources are the things in the world we can make use of	grow into healthy plants	Each material can be used to make many different things, for example plastic can be made into cups, plates, toys, chairs.
	To know that we use our eyes to see	Scientists group animals according to their features	To know that tools are used to gather information about	To know that there are natural and manufactured	To name and describe the parts of a plant	To identify the properties of materials
Week 2	Our eyes use light that enters the eye to enable us to see Light does not come out of the eye.  Parts of the eye and what their purpose is. (e.g. the eyelashes, eyelids and cornea protect the rest of the eye)  Sometimes people need help to see and can use glasses, contact lenses, telescopes, microscopes	Animals can be grouped according to their features  Amphibians are cold blooded animals that live in water and also on land. They lay eggs underwater  Mammals are warm blooded animals give birth to live young.	the weather  A rain gauge measures how much rain has fallen  A weather vane shows which way the wind is blowing  A thermometer measures the temperature	resources that people on Earth use  A natural resource is something that is found in nature that people can use  A manufactured resource is something people have created to use  Some natural resources cannot be easily replaced, they are non-renewable	The roots of a plant act as an anchor, fixing the plant into the ground  The stem of a plant grows above the ground  The leaves and flowers grow from it. A plant's leaves absorb sunlight and turn it into energy that the plant uses to grow	Properties of materials are things we can measure, see or feel  We can describe and compare properties of different materials  Materials have different properties that make them useful for different tasks

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	To know that sounds travel	To understand that we can	To present data using a	To identify logging as a way	To understand that plants	To explain why materials are
m	through our ears to send	group animals according to	graph	of harvesting the Earth's	spread their seeds to make	chosen for specific tasks
	messages to our brain	what they eat		natural resource	new plants	
			Data is a collection of facts			Materials have different
	Sounds travel through our	Animals that eat other		Trees are a natural resource	Plants spread their seeds in	properties that make them
	ears to send messages to our	animals are called carnivores	We can present data using a	that people can use for	order to make new plants	useful for different tasks
×	brain		graph	paper, furniture and other		
Week		Animals that eat plants are		uses	When plants make seeds to	When designing or making
-	Sounds can be very different,	called herbivores	We can gather information		make new plants, we call this	objects, materials are chosen
	some loud and some quiet		from a graph which helps us	Logging means cutting down	reproducing	for their properties
		Animals that eat both plants	to understand the weather	trees. Sometimes logging can		
	Some people need help to	and other animals are called		cause damage to the	Plants must spread their	Some materials will be better
	hear and some people cannot	omnivores		environment	seeds to help them grow into	suited to certain purposes
	hear at all				new plants	than others.
	To know that our senses help	To describe the needs of a	To know there are different	To know that people create	To understand that some	To understand that materials
	us to understand the world	pet	types of cloud	pollution which can harm the	trees are evergreen, and	can be sorted according to
	around us	•	types of cloud	pollution which can harm the environment	trees are evergreen, and some are deciduous	can be sorted according to whether they are or are not
		Pets need food, space,	Clouds are made of tiny	·	_ ·	_
		•	,, ,	·	_ ·	whether they are or are not
4	around us	Pets need food, space,	Clouds are made of tiny	environment	some are deciduous	whether they are or are not
ek 4	around us  Our senses help us to	Pets need food, space, shelter, medicine and	Clouds are made of tiny droplets of water that float in the air	environment  Pollution occurs when an	some are deciduous  Evergreen trees keep their	whether they are or are not attracted to magnets
Neek 4	Our senses help us to understand the world around	Pets need food, space, shelter, medicine and	Clouds are made of tiny droplets of water that float in	environment  Pollution occurs when an environment is damaged by	some are deciduous  Evergreen trees keep their	whether they are or are not attracted to magnets  Certain materials are
Week 4	Our senses help us to understand the world around	Pets need food, space, shelter, medicine and company	Clouds are made of tiny droplets of water that float in the air	environment  Pollution occurs when an environment is damaged by	some are deciduous  Evergreen trees keep their leaves all year around	whether they are or are not attracted to magnets  Certain materials are
Week 4	Our senses help us to understand the world around us	Pets need food, space, shelter, medicine and company  Some animals are suitable for	Clouds are made of tiny droplets of water that float in the air  Dark clouds are carrying	Pollution occurs when an environment is damaged by waste.	some are deciduous  Evergreen trees keep their leaves all year around  Deciduous trees drop their	whether they are or are not attracted to magnets  Certain materials are attracted to magnets
Week 4	Our senses help us to understand the world around us Our senses can warn us of	Pets need food, space, shelter, medicine and company  Some animals are suitable for keeping as pets but some are	Clouds are made of tiny droplets of water that float in the air  Dark clouds are carrying more water. Cirrus clouds are	Pollution occurs when an environment is damaged by waste.  Pollution is caused by things	Evergreen trees keep their leaves all year around  Deciduous trees drop their leaves during autumn time	whether they are or are not attracted to magnets  Certain materials are attracted to magnets  We cannot see the force of
Week 4	Our senses help us to understand the world around us Our senses can warn us of	Pets need food, space, shelter, medicine and company  Some animals are suitable for keeping as pets but some are	Clouds are made of tiny droplets of water that float in the air  Dark clouds are carrying more water. Cirrus clouds are white, thin and wispy.  Cumulus clouds are white and fluffy like cotton wool.	Pollution occurs when an environment is damaged by waste.  Pollution is caused by things that people do, for example	Evergreen trees keep their leaves all year around  Deciduous trees drop their leaves during autumn time and grow fresh leaves in	whether they are or are not attracted to magnets  Certain materials are attracted to magnets  We cannot see the force of magnetism  Magnets can be useful, for
Week 4	Our senses help us to understand the world around us Our senses can warn us of danger	Pets need food, space, shelter, medicine and company  Some animals are suitable for keeping as pets but some are not	Clouds are made of tiny droplets of water that float in the air  Dark clouds are carrying more water. Cirrus clouds are white, thin and wispy.  Cumulus clouds are white	Pollution occurs when an environment is damaged by waste.  Pollution is caused by things that people do, for example	Evergreen trees keep their leaves all year around  Deciduous trees drop their leaves during autumn time and grow fresh leaves in	whether they are or are not attracted to magnets  Certain materials are attracted to magnets  We cannot see the force of magnetism

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	To understand that some	To describe an animal using	To understand that weather	To know that recycling	To recognise which parts of	To investigate which
	people have problems with	scientific words	forecasts help people to	means turning used things	plants we eat	material would be most
	their senses, such as		prepare for different kinds of	into something new		suitable for (insert purpose)
	blindness or deafness	We can use scientific words	weather		We eat different parts of	
		to describe animals		When something used is	plants including the roots,	An investigation helps us to
	Some people have problems		A weather forecast tells us	reused for a new purpose, it	stem, leaves and sometimes	find out the best answer
	with their senses	Scientists observe carefully	what the weather will be in	is recycled.	the flowers	
ek 5		and draw detailed diagrams	the next few days			When we investigate
	Helen Keller was taught to		· ·	We recycle items to reduce	Some plants are dangerous to	something, we need to make
Μe.	read, write and speak even	Fish have gills to help them	Scientists study the weather	waste.	eat and would make us ill	sure our investigation is fair
>	though she was deaf and	breathe, fins to help them	and use computers to make			_
	blind	swim and scales to protect	forecasts. (A scientist who	The following things that we	We need a variety of fruit and	Scientists investigate things
		their bodies	studies the weather is called	may find in our homes can be	vegetables in our diet	carefully and fairly to find
	Helen Keller helped other		a meteorologist.)	recycled: newspapers, letters,		answers to their questions
	people who were also deaf		,	magazines, plastic bottles,		•
	and blind		Weather forecasts help	drinks cans, food tins,		
			people to be prepared for	cardboard boxes, glass jars.		
			different kinds of weather			

## Year 1 Knowledge Objectives and Knowledge Goals – SCIENCE

	I know my senses help me to understand the world around me	To understand what an animal is and how animals can be grouped	To understand and describe the four seasons, and how to gather data about weather	To describe different ways we can take care of the Earth	To describe some common plants, including trees	I know the properties of some materials and some facts about magnets
ASSESSMENT	<ul> <li>Specific Knowledge Goals:</li> <li>To identify, name, label and draw the basic parts of the human body</li> <li>To identify and label parts of our body relating to our senses</li> </ul>	Scientific knowledge and understanding:  I can name and describe a variety of animals using scientific vocabulary  I know that animals can be grouped by their features e.g. whether they are amphibians or mammals  I know that animals can be grouped by what they eat e.g. herbivores, omnivores and carnivores  I know that there are wild and domestic animals. Domestic animals are animals that we keep as pets	Specific Knowledge Goals:  We have four seasons; spring, summer, autumn and winter.  Our weather is warmer during the spring and summer and cooler during the autumn and winter.  To know the tools used to gather data about the weather  There are different types of cloud and that clouds indicate the weather we are about to experience  To recognise weather symbols used in weather forecasting and explain the importance of accurate forecasts  Meteorologists can study the weather and predict how it will change.  Some weather can be dangerous, for example, flooding and hurricanes.	<ul> <li>Specific Knowledge Goals:         <ul> <li>To know that there are natural and man-made resources.</li> <li>Some resources are renewable and some are non-renewable</li> <li>To know that logging means cutting down trees.</li> <li>To identify some of the ways in which the environment can be polluted and how we can reduce pollution</li> </ul> </li> </ul>	<ul> <li>Specific Knowledge Goals:         <ul> <li>To name and describe the purpose of parts of a plant, and what they need in order to grow.</li> <li>To understand that plants spread their seeds to reproduce.</li> <li>To understand that some trees are evergreen, and some are deciduous.</li> </ul> </li> <li>To understand that plants are grown for food and to recognise which parts of plants we eat</li> </ul>	Specific Knowledge Goals:  Materials have different properties  Magnetism is a force we cannot see  Materials, including magnets, have different uses around the home and in everyday life