

	Happiness	Responsib	oility Frien	dship	Respect	Courage	
			SCIENC				
		Autur	mn 1 - Animals	inc. Hum	 nans		
	1	Who am I?	7			ealthy me	
EYFS		Year 1		Year 2			
	Knowled	ge	Working Scientifically		Knowledg	е	Working Scientifically
I know my body parts head, chest, back, shoulders, arms, legs, knees, elbows, shins. I know the basic parts of the human beneck, face, ears, eyes, hair, mouth, tended body. I know that there is a skeleton inside a body. I know the names of some of the main in my body: skull, ribs, spine, hand, for kneecap, hips. I know which part of the body is associated with which sense.	eton inside our of the main bones ne, hand, foot,	I can identify and label the basic parts of the human body. I can build a 'dog biscuit' skeleton and label the basic parts and use this experience to answer questions. I can make observations using appropriate senses.	air for survival. I know the importance of exercise and how it helps me. Practical: Rising Stars – How does exercise help me? I know why we need food. I know eating the right amounts and different types of food is important. Practical: Rising Stars – Sorting Foods	I can observe and record changes in my body during exercise. I can use data to make links between exercise and changes in my body.			
EYFS	Polar F Knowled	<mark>Places – Sprir</mark> ge	ng 1 Working	·	an and hygienic. Rising Stars – Snot tra	il	classify foods according to different categories
I know the names of baby animals. I know some animals are nocturnal. I know that some animals live in water.	I know the names of a varianimals including fish, amplifieds and mammals. I know the common names likely to be kept as pets. I know that animals can be depending on what they eather bivores and omnivores.	phibians, reptiles, s of animals most e classified at into carnivores,	Scientifically I can classify animals into groups. I can record my findings on a whole class pictogram.	I know that that grow in	animals including hu	mans have offspring mans reproduce and	e.g. packaged/fresh/high sugar/processed etc. I can carry out a simple test and link the idea to hygiene and the fact that germs travel.



	I know why animals camouflage and why it's important.	I can gather and record data to help answer questions (camouflage).
EYFS	Plants and Animals – S	pring 2
	Knowledge	Working Scientifically
I know the growth stages of a sunflower and a butterfly and can draws pictures with	I know the names of a variety of common garden birds. I know characteristics of birds: feathers, beaks, eggs, nests, diet.	I can identify birds and record observations on a tally chart.
I can make observations of animals and plants and explains why some things occur and talk about changes.	beaks, eggs, nests, diet.	I can describe and compare the features of different birds.
Explore the natural world around them, making observations and drawing pictures of animals and plants.		



		N	Materials		
	Autumn 2		Materials Monster		
EYFS	Year 1		Year 2		
	Knowledge	Working Scientifically	Knowledge	Working Scientifically	
	I know that the name of an object is different from the material from which it is made.	I can perform simple tests to explore questions.	I know that some materials can be used to make more than one thing.	I can identify and compare the suitability of a	
	I know how to identify and name a range of materials including, but not limited to, wood, plastic, glass, metal, water and rock.	I can classify materials according	I know that different materials can be used to make the same thing.	variety of everyday materials.	
	I know that materials have different properties: hard/soft, stretchy/stiff, shiny/dull, rough/smooth, bendy/not bendy, waterproof/not waterproof, absorbent/not	I can classify materials according to their properties.	I know that a material must have certain properties to make it suitable for its purpose (including outdoor materials). Practical investigation idea: CLEAPPS - Stretchy	I can classify materials and link their properties with its use (including outdoor materials).	
	absorbent, opaque/transparent.	I can ask simple questions and	materials. Which material is best to make a costume (for the monster)?	I can record my observations.	
		recognise that they can be answered in different ways.	I know that some materials (solids) can be both bent and twisted e.g, sponges.	I can make my own choices and sort according to properties.	
			I know that some materials (solids) can be bent and sometimes be rigid and not be able to be bent e.g.,	properties.	
EYFS	Holiday – Summer	1	metal.		
	Knowledge	Working Scientifically	I know that some materials (solids) can be squashed.		
I know ice can melt and why it	I know that some materials are similar, and some are different according to their	I can compare and group together a	I know that some materials (solids) can be stretched.		
happens. I know some things float and some	I know that materials are chosen depending on their purpose e.g., plastic flip flops are	variety of everyday materials.	I know that the shape of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	I can sort objects into groups and can say why the object has been able to	
sink.	waterproof.	I can make decisions about the choice of material based on the intended use.	Practical investigation idea: Rising stars – Squash me, bend me.	change its shape (can relate the ability to change to the material it is made from)	



			Plants		
	Plants and Animals – S	pring 2	Young Gardeners – Spring 2		
EYFS	Year 1	T	Year 2		
I know what you need to plant a seed and for it to grow. I can observe the growth of seeds and can talk about changes. I know how trees have changed over the 4 seasons.	Knowledge I know the names of a variety of common and garden plants: daisy, rose, tulip, daffodil, stinging nettle, buttercup, pansy, poppy, dock. I know the basic structure of a plant: leaves, flowers, petals, roots, bulb, seed, stem. Practical investigation idea: build a plant from vegetables e.g. roots – carrots, flower – cauliflower etc. I know the names of some common trees. I know the difference between deciduous and evergreen. I can describe the basic structure of a tree: trunk, branches, leaves, blossom, fruit, roots.	Working Scientifically I can plant a seed and observe closely (using a magnifying glass) changes over time. I can compare and contrast familiar plants. I can draw and label the basic structure of a plant. I can compare and contrast familiar trees. I can draw and label the basic structure of a tree.	I know and can describe how seeds and bulbs grow into mature plants. Practical investigation idea: Rising stars – What Shall We Grow? CLEAPSS: Make a Micro Propagator. I know that plants need water, light and a suitable temperature to grow and stay healthy. I know that seeds and bulbs need water to grow but most do not need light. Practical investigation idea: Rising stars – What Do Seeds Need for Germination? I know that plants grow and reproduce.	Working Scientifically I can observe seeds as they are growing and ask questions. I can set up a comparative test to show that plants need light and water to survive. I can make a simple plan, carry out my test and record the growth of a plant.	



Seasonal Changes					
Year 1		Year 2			
Knowledge	Working Scientifically	Knowledge	Working Scientifically		
Autumn I know the order of the 4 seasons. I know the changes to plants in autumn. I know that leaves change colour and fall from deciduous trees in autumn. I know why these changes happen in autumn; leaves fall to protect the tree. I know that the days are beginning to get shorter. I know what sort of weather is typical. Winter I know that most plants are dormant in winter. I know evergreen trees still have leaves in winter. I know why these changes happen in winter. I know that the days are short and it gets dark early. I know what sort of weather is typical. Spring I know that plants and seeds begin to grow in spring. I know that deciduous trees begin to grow new leaves or blossom. I know why these changes happen in spring I know that the days are beginning to get longer. I know what sort of weather is typical. Summer I know that plants get larger and flower.	I can observe and describe the changes in weather.	Strand not taught in Year 2	Strand not taught in Year 2		
	Autumn I know the order of the 4 seasons. I know the changes to plants in autumn. I know that leaves change colour and fall from deciduous trees in autumn. I know why these changes happen in autumn; leaves fall to protect the tree. I know that the days are beginning to get shorter. I know what sort of weather is typical. Winter I know that most plants are dormant in winter. I know evergreen trees still have leaves in winter. I know why these changes happen in winter. I know that the days are short and it gets dark early. I know what sort of weather is typical. Spring I know that plants and seeds begin to grow in spring. I know that deciduous trees begin to grow new leaves or blossom. I know why these changes happen in spring I know that the days are beginning to get longer. I know what sort of weather is typical.	Year 1 Knowledge Scientifically	Year 1		



	I know why these changes happen in Summer. I know that the days are long. I know what sort of weather is typical.	Living Thing	s and their Habitats	·in a · 4
EYFS	Year 1		Our local environment – Spi Year 2	ring i
ETFS	Knowledge	Working Scientifically	Knowledge	Working Scientifically
I know about different habitats.	Strand not taught in Year 1	Strand not taught in Year 1	I know that some things are living, some things are dead and some things have never been alive. I know what a habitat is and that most living things live in habitats. I know a habitat provides basic needs: food, water, warmth, shelter and air. I know that a micro habitat is a vey small habitat with plants and animals living there. I know how the conditions in a micro habitat affect the number and types of plants and animals that live there. Practical investigation idea: Rising stars – Animals and Plants in Different Habitats. I know that a food chain shows who is eaten by whom. I know the meaning of the words predator and prey.	I can sort into groups of alive, dead and never been alive. I can identify a range of micro habitats around school. I can gather and record my observations. I can describe the conditions in different micro habitats e.g under log, on stony path. I can create a 3-part food chain.



		I can apply my
		knowledge of a food chain to a micro
		habitat.