Science Unit of Work Year 1			
Unit	Prior learning (Retrieval)	Future learning	Common Misconceptions
Animals including humans	 Knowledge of some animals from observations eg at the zoo or as pets. 	 Know animals need the right types and amounts of nutrition and they cannot make their own food. Know that humans and some other animals have skeletons and muscles. Know the simple functions of basic parts of the digestive system Know how to construct and interpret food chains. Know how humans change and develop to old age. Know and name the main parts of the human circulatory system. Know the impact of diet, exercise, drugs and lifestyle on the way bodies function. Know how nutrients and water are transported within animals. 	 All animals that live in the sea are fish All bugs are insects Amphibians and reptiles are the same Humans aren't animals Insects aren't animals
National Curriculum Subject Content:	 Identify and name a variety of comm Describe and compare the structure including pets) 	non animals including fish, amphibians, re non animals that are carnivores, herbivore of a variety of common animals (fish, am pasic parts of the human body and say whi	es and omnivores phibians, reptiles, birds and mammals
Knowledge:			Key Vocabulary
Intended Knowledge Substantive	 Know the names for parts of the body (head, neck, arms, elbows, legs, knees, face, ears, eyes, hair, mouth, teeth) Know which part of the body is associated with each sense. Know what animals eat and group them. Know and name a variety of animals including a fish, amphibian (frog), reptile (snake), bird and mammal (dog, cat, human). 		beak, carnivore, claw, fin, fur, herbivore, omnivore, scales, senses,
	reptile (snake), bird and mammal (d	og, cat, human).	taste, thigh, waist
Working Scientifically:	reptile (snake), bird and mammal (d	og, cat, human).	Working Scientifically Vocabulary
Working Scientifically: Disciplinary Knowledge:	reptile (snake), bird and mammal (d 5) Know and compare the structure of	og, cat, human). a variety of common animals. Working Scientifically Objectives • Ask simple questions (yes/no) • Identify and classify animals	

Significant people/places	Sir David Attenborough

		nit of Work ar 1	
Unit	Prior learning (Retrieval)	Future learning	Common Misconceptions
Materials	Know and be familiar with the name of some materials eg paper, wood, glass, metal Explored a variety of resources made of different materials in EYFS.	 Know how materials can be changed by squashing, bending, twisting and stretching. Know why a material might or might not be useful for a specific job. 	 Only fabric is a material Solid is another word for hard Rock describes an object not a material
National Curriculum Subject Content:	 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 		
Knowledge:			Key Vocabulary
Intended Knowledge Substantive	 Know the difference between an object and the material it is made from. Know and name a variety of everyday materials including wood, plastic, glass, metal, water and rock. Know simple physical properties of everyday materials (listed above) 		Absorbent, bendy/floppy, hard, material, opaque, object, rough, transparent, shiny, smooth, stretchy, waterproof
Working Scientifically:	Enquiry	Working Scientifically Objectives	Working Scientifically Vocabulary
Disciplinary Knowledge:	 Compare and group together a variety of everyday materials based on their simple physical properties. 	 Use observations and ideas to suggest answers to questions. Begin to use simple scientific language to talk about what they have found out. Perform simple tests. Gather and record data to help in answering questions. 	• Compare, identify, classify
Assessment Outcomes	Substantive I know the difference between an object and the material it is made from. I know and can name a variety of everyday materials. I know the simple physical properties of everyday materials.		Disciplinary I can compare and group together a variety of everyday materials based on their physical properties. I can make predictions about the properties of different materials.
Significant people/places	Charles Macintosh		

		e Unit of Work Year 1	
Unit	Prior learning (Retrieval)	Future learning	Common Misconceptions
Plants	 Observed plants Know names such as leaf, flower, petal Know that plants can die 	 Know and explain how seeds and bulbs grow into plants Know what plants need in order to grow and stay healthy (water, light and suitable temperature) 	 Plants are flowering plants grown in pots. Trees are not plants All stems are green Minerals in the soil, water and carbon dioxide are food for plants
National Curriculum Subject	Identify and name a variety of comm	on wild and garden plants, including deci	duous and evergreen trees
Content:	Identify and describe the basic struct	ture of a variety of common flowering pla	nts, including trees
Knowledge:			Key Vocabulary
Intended Knowledge Substantive	 1) Know and name the petals, stem, leaves and roots of a plant. 2) Know and name the roots, trunk, branches and leaves of a tree. 3) Know the difference between deciduous and evergreen trees. 4) Know the names of common garden plants- vegetables, daffodils, sunflower and poppy. 5) Know the name of common wild plants- dandelion, daisy, buttercup and nettle. 		Bulb, branch, deciduous, evergreen, stem, root, petal, dandelion, daisy, buttercup, daffodils, sunflower, poppy.
Working Scientifically:	Enquiry	Working Scientifically Objectives	Working Scientifically Vocabulary
Disciplinary Knowledge:	 Use simple observations to identify and classify plants based on a range of characteristics. Observation over time- Record how plants change over time for example leaves falling off trees or buds opening. 	 Observe closely using simple equipment safely Use their observations and ideas to suggest answers to questions. Identify and classify findings. Gather and record data to help in answering questions. 	• Observe, classify, characteristic
Assessment Outcomes	Substantive I know the names for parts of the plant I know the names for parts of a tree. I know the difference between evergreen and deciduous trees. I know the name of common garden plants. I know the names of common wild plants.		Disciplinary I can classify plants based on different characteristics eg appearance. I can observe how plants change over time. I can use observations to answer questions. I can use simple equipment safely.
Significant people/places	Jane Colden- American botanist		·

Science Unit of Work Year 1			
Unit	Prior learning (Retrieval)	Future learning	Common Misconceptions
Seasons	 Know the name of the four seasons. Know that summer is a hot period and winter is a cold period. 	 Measure and record changes in weather. (rainfall, wind strength). 	 It only snows in Winter. Flowers only grow in Spring and Summer.
National Curriculum Subject Content:	 observe changes across the 4 seasons observe and describe weather associated with the seasons and how day length varies 		
Knowledge:			Key Vocabulary
Intended Knowledge Substantive	 Know that the weather changes across the four seasons. Know what the weather is like in Autumn. Know what the weather is like in Winter. Know what the weather is like in Spring. Know what the weather is like in Summer. Know how day length changes throughout the seasons 		Season, day length, spring, storm, summer, weather, winter, autumn.
Working Scientifically:	Enquiry	Working Scientifically Objectives	Working Scientifically Vocabulary
Disciplinary Knowledge:	Observation over time Keep a weather diary to compare weather across the year.	 I can use simple data answer questions. 	Data, compare, observe
Assessment Outcomes	 Substantive I know the names of the seasons and know about the type of weather in each season. I know about the changes in the seasons. I know how day length varies across the seasons. 		 Disciplinary I can identify and classify things. I can explain to others what I have found out. I can observe changes in seasons.
Significant people/places			