



Year Two: Rufford Class					
Autumn		Spring		Summer	
Animals inc. humans (Gr) N.C. Y2 PoS	Investigating Materials (Gr) N.C. Y2 PoS	Identifying Animals (PB) N.C. KS1 Consolidation Unit	Living Things & Their Habitats (Gr) N.C. Y2 PoS	Scientists & Inventors (Tw) N.C. KS1 Consolidation Unit	Growing Plants (Gr) N.C. Y2 PoS
Key Vocabulary Basic needs, diet, exercise, hygiene, illness, medicine, offspring, seven basic needs (movement, respiration, sensitivity, growth, reproduction, excretion and nutrition), survive.	Key Vocabulary Material, fabric, object, fragile, waterproof, hard, soft, rough, smooth, flexible, rigid, bend, stretch, twist	Key Vocabulary Identify, common, pet, animal, mammal, similar, different, bird, reptile, characteristics, compare, fish, amphibian, life cycle, vertebrates, predator, larvae, carnivore, omnivore, Venn diagram, food chain, herbivore	Key Vocabulary Alive, dead, living, habitat, microhabitat, conditions, adapted, food chain, omnivore, herbivore, carnivore, animal, adaptations, features, suited, nutrition, human, reproduction, movement, differences, similarities, respiration, growth, prefer, plant, sensitivity, survive, ocean, woodland, forest, jungle, savanna, desert, mountain, compare	Key Vocabulary Greenhouse, horticulturist, Eden Project, Habitat, Food Chain, Louis Pasteur, germs, waterproof, Charles Mackintosh, raincoat, Rachel Carson, Ocean, pollution, chemicals, Elizabeth Garrett Anderson, wind, turbine, energy, renewable, doctor	Key Vocabulary Plant, tree, flower, roots, stem, lead, seed, bulb

Scientific Knowledge to be covered throughout the year				
Term	Disciplinary Knowledge	Biology	Chemistry	Physics
Autumn 1: Animals inc. Humans	<u>Comparative and fair testing</u> <ul style="list-style-type: none"> Y2: Know that explanations can be made based on what has happened during an investigation. 	<ul style="list-style-type: none"> Know that animals, including humans, have offspring which grow into adults. Know and describe the basic needs of animals, including humans, for survival (water, food and air) Know and describe the importance for humans of exercise, eating the right 		



	<ul style="list-style-type: none"> • Y2: Know that simple tests can be carried out independently. <p><u>Identifying and classifying</u></p> <ul style="list-style-type: none"> • Y2: Know that living and non-living things can be classified and compared through methods of sorting and grouping. 	<p>amounts of different types of food, and hygiene.</p>		
<p>Autumn 2: Investigating Materials</p>	<p><u>Gathering and recording</u></p> <ul style="list-style-type: none"> • Y2: Know that relationships can be identified within scientific phenomena. 		<ul style="list-style-type: none"> • know, identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses • Know and discover how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. 	
<p>Spring 1: Identifying Animals</p>		<ul style="list-style-type: none"> • Know, identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals • Know and name a variety of common animals that are carnivores, herbivores and omnivores • Know, describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) 		
<p>Spring 2: Living things & their habitats</p>		<ul style="list-style-type: none"> • Know, explore and compare the differences between living, dead and things that have never been alive. Know and identify that most living things live in habitats to which they are suited. • Know and describe how different habitats provide for the basic needs of 		



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		<p>different kinds of animals and plants – knowing how they depend on each other.</p> <ul style="list-style-type: none">• Know and name a variety of plants and animals in their habitats, including microhabitats.• Know and 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.		
Summer 1: Scientists & Inventors		<ul style="list-style-type: none">• Know how plants need water, light and a suitable temperature to grow and stay healthy.• Know and describe the basic structure of common flowering plants by observing and sketching a range of common plants.• Know the importance for humans of exercise, of eating the right amounts of different types of food, and hygiene.• Know and describe the importance of hygiene to humans• Know and describe how animals obtain their food from plants and other animals, using the idea of a simple food chain	<ul style="list-style-type: none">• Know about people who have developed new materials (Charles Macintosh)• Know, identify and compare the suitability of a variety of everyday materials for particular uses	
Summer 2: Growing plants		<ul style="list-style-type: none">• Know, observe and describe how seeds and bulbs grow into mature plants.• Know and describe how plants need water, light and a suitable temperature to grow and stay healthy.		