



Science Core Curriculum
Year 2

Unit	Animals including humans Growth All about diet and health	Living things and their habitats Habitats from around the world	Plants	Materials
Substantive Knowledge	<ul style="list-style-type: none">• Notice that animals, including humans, have offspring which grow into adults• Find out about and describe the basic needs of animals, including humans, for survival (water, food and air)• Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene	<ul style="list-style-type: none">• Explore and compare the differences between things that are living, dead, and things that have never been alive• Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other• Identify and name a variety of plants and animals in their habitats, including microhabitats• 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	<ul style="list-style-type: none">• Observe and describe how seeds and bulbs into mature plants Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy• Understand the requirements of plants for germination, growth and survival, as well as, the processes of reproduction and growth in plants	<ul style="list-style-type: none">• 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

<p>Disciplinary knowledge</p>	<ul style="list-style-type: none"> • Asking simple questions and recognise that they can be answered in different ways • Observe closely, using simple equipment • Perform simple tests • Identify and classify • Use their observations and ideas to suggest answers to questions • Gather and record data to help in answering questions • Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions 	<ul style="list-style-type: none"> • Observe closely, using simple equipment • Perform simple tests • Identify and classify • Use their observations and ideas to suggest answers to questions 	<ul style="list-style-type: none"> • Observe closely, using simple equipment • Perform simple tests • Gather and record data to help in answering questions • Identifying and classifying • Identifying differences, similarities or changes related to simple scientific ideas and processes Observing and recording, with some accuracy 	<ul style="list-style-type: none"> • Observe closely, using simple equipment • Perform simple tests • Identify and classify • Gather and record data to help in answering questions
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<p>Key Vocab</p>	<p>Animals including humans growth All about diet and health</p> <p>survival shelter nutrition oxygen essential vital non-essential survive grow healthy protein carbohydrate dairy vitamins calcium fat balanced diet nutrients fresh food pre-cooked processed food exercise strength flexibility balance coordination hygiene prevent germs bacteria virus</p>	<p>Animals including humans growth All about diet and health</p> <p>life cycle grow survive independent adult foetus womb helpless toddler develop offspring inherit gene resemble differences reproduction hatchling chick bar chart predict caterpillar transformation larva chrysalis metamorphosis frog amphibian frogspawn tadpole froglet</p>	<p>Living things and their habitats:</p> <p>senses nutrition reproduce excrete respire habitat microhabitat fungi survive shelter antennae suitable condition colony insect producer consumer herbivore carnivore omnivore food chain life cycle nutrients rot caterpillar automated frozen food forklift truck refrigerated lorry canned</p>	<p>Habitats from around the world</p> <p>habitat microhabitat organism environment mate rainforest moisture extinct climate endangered biodiversity deforestation poaching pollution rainforest plankton ocean ecosystem coral reef trench Antarctic Arctic caribou narwhal tundra earthworm desert lizard cactus pond</p>	<p>Plants</p> <p>seeds bulbs growth plant compare predict investigate control experiment method photosynthesis carbon dioxide oxygen glucose energy pollination life cycle germination reproduction seedling manure crop insulate thrive healthy forest desert adapt condition survive</p>	<p>Materials</p> <p>material property suitable object brick bridge triangle obstacle structure construction stretchy elastic floppy hinder limit bend twist squash stretch force mackintosh protective fluorescent safety waterproof</p>
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