

Long-Term Plan: Science

| Year: 2 | Subject: Science | | | | | |
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| | Autumn Term (13 weeks 2 days) | | Spring Term (9 weeks 4 days) | | Summer Term (9 weeks 4 days) | |
| | Autumn 1 (7 weeks 4 days) | Autumn 2 (5 weeks 3 days) | Spring 1 (4 weeks 4 days) | Spring 2 (5 weeks) | Summer 1 (4 weeks 2 days) | Summer 2 (5 weeks 2 days) |
| National Curriculum Subject Content: | Animals Including Humans | Living Things and Their Habitats | Everyday Materials | Everyday Materials | Plants | Living Things and Their Habitats |
| Learning Outcomes Students will be taught to: | <p>i) Notice that animals, including humans, have offspring which grow into adults.</p> <p>(ii) Find out about and describe the basic needs of animals, including humans, for survival (water, food and air).</p> <p>(iii) Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.</p> | <p>(i) Explore and compare the differences between things that are living, dead, and things that have never been alive.</p> <p>(ii) 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.</p> <p>(iii) 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.</p> | <p>(i) Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.</p> <p>(ii) Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.</p> | <p>(i) Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.</p> <p>(ii) Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.</p> | <p>(i) Observe and describe how seeds and bulbs grow into mature plants.</p> <p>(ii) Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.</p> | <p>(i) Explore and compare the differences between things that are living, dead, and things that have never been alive.</p> <p>(ii) 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.</p> <p>(iii) Identify and name a variety of plants and animals in their habitats, including microhabitats.</p> <p>(iv) 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.</p> |

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| Working Scientifically Skills | <ul style="list-style-type: none"> planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs using test results to make predictions to set up further comparative and fair tests reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations identifying scientific evidence that has been used to support or refute ideas or arguments | | | | | |
| Scientific Topic Area | 'Healthy Animals' | 'Habitats' | 'Materials Matter' | 'Squash, Bend, Squish, Stretch' | 'Ready, Steady, Grow' | 'Gardens and Allotments' |
| Literature Links | <p><u>Core Text:</u> Storm Whale <i>Benji Davis</i></p> <p><u>Guided Reading Text:</u> Moth - An Evolution Story <i>Isabel Thomas</i></p> <p><u>Complementary Texts:</u></p> <ol style="list-style-type: none"> Babaroo the Alien and the magic of healthy food <i>Kate Melton</i> Cook it <i>Georgie Birkett</i> Which food will you choose? <i>Claire Potter</i> Why Should I Eat You, Mrs Green?: The Delightful Nutrition Book for Kids <i>Emily Bunny</i> This is how we keep healthy <i>DK</i> How your body works <i>Rosie Dickens</i> | <p><u>Core Text:</u> Yucky Worms <i>Vivian French</i></p> <p><u>Guided Reading Text:</u> NA</p> <p><u>Complementary Texts:</u></p> <ol style="list-style-type: none"> Bug Hotel <i>Libby Walden</i> Insect Detective <i>Steve Voake</i> Superworm <i>Julia Donaldson & Axel Scheffler</i> Minibeasts: Ladybird First Fabulous Facts <i>Jaclyn Crupi & Ladybird</i> Bonkers about Beetles <i>Owen Davey</i> First Facts: Bugs <i>Penelope Arlon & DK</i> Ant Cities <i>Arthur Dorros</i> | <p><u>Core Text:</u> NA</p> <p><u>Guided Reading Text:</u> NA</p> <p><u>Complementary Texts:</u></p> <ol style="list-style-type: none"> Materials Matter <i>Clive Gifford</i> Materials <i>Izzy Howards</i> Let's build a house <i>Mick Manning</i> | <p><u>Core Text:</u> Ossiri and the Bala Mengri <i>Richard O'Neill</i></p> <p><u>Guided Reading Text:</u> NA</p> <p><u>Complementary Texts:</u></p> <ol style="list-style-type: none"> Everyday Materials <i>Nichola Tyrrell</i> Fact Cat-Materials <i>Izzy Howell</i> | <p><u>Core Text:</u> NA</p> <p><u>Guided Reading Text:</u> <i>Pattan's Pumpkins Chitra Soundar</i></p> <p><u>Complementary Texts:</u></p> <ol style="list-style-type: none"> Bloom <i>Anna Booth</i> Titch <i>Pat Hutchins</i> Look and Wonder: The Amazing Plant Life Cycle Story <i>Kay Barnham</i> A Seed is Sleepy <i>Dianna Aston & Sylvia Long</i> Katie and the Sunflower <i>James Mayhew</i> | <p><u>Core Text:</u> NA</p> <p><u>Guided Reading Text:</u> The Beeman <i>Laurie Krebs</i></p> <p><u>Complementary Texts:</u></p> <ol style="list-style-type: none"> The Tiny Seed <i>Eric Carle</i> It starts with a seed <i>Laura Knowles</i> The Gigantic Turnip Aleksi Tolstoy & Niamh Sharkey Lifecycles: Seed to Sunflower <i>Camilla De La Bedoya</i> The Extraordinary Gardener <i>Sam Broughton</i> Sunflower Shoots and Muddy Boots: A Child's Guide to Gardening <i>Katherine Halligan & Grace Easton</i> |

