

Year A Science KS2

Topic	
<p>The Circle of Life</p> <p>Animals, including humans</p>	<p>Begin to understand the concept of The Circle of Life Learn the function of the digestive system and how animals get energy from food Classifying and identifying, problem solving Learn how nutrients get into the body Understand that animals digest differently and this links to their diet Revise vocab: Herbivore, Carnivore and Omnivore Analysing secondary sources Learn about types of teeth and what they do, relate differences to diet Increase understanding of food chains and food webs, predators, prey, producers and consumers (link to KS1Food Chains) Analysing secondary sources Understand the role of decomposers in returning the nutrients to the soil and consider the role of the sun</p>
<p>Magnetic Fun and Games</p> <p>Forces and Magnets</p>	<p>Learn about forces (pushes and pulls) classify them Identify that some need contact but others (gravity and magnetism) do not Investigate the amount of force needed for an action and measure the effect Classifying and identifying, fair testing, problem solving Raise questions and theories about magnetic materials then test ideas Exploring, classifying and identifying, analysing secondary sources Learn about the polarisation of magnets, making predictions and testing ideas Exploring, problem solving</p>
<p>Greatly Green Growers</p> <p>Plants</p>	<p>Learn about what plants need to become strong and healthy Understand the importance of each requirement – light, water, space, soil/ nutrients, air Exploring over time, fair testing, analysing secondary sources Learn about all the different parts of a plant and food classification Exploring over time, observation, classifying and identifying Learn how to review data, draw graphs, discuss and interpret findings from experiments/investigations Fair testing, problem solving, exploring over time</p>
<p>This Planet Rocks</p> <p>Rocks and Fossils</p>	<p>Study different rocks by observing, grouping and describing their properties and features Classifying and identifying Learn about the 3 different types of rock – sedimentary, igneous and metamorphic Design experiments demonstrating a knowledge of fair tests Classifying and identifying, fair testing, problem solving Recall KS1 learning about Mary Anning and fossils and link to current learning about types of rock etc Learn about soil and understand the differences in types of soil Exploring, problem solving, fair testing</p>
<p>Shining the Light</p> <p>Light</p>	<p>Understand how light is needed to see things Pattern seeking, problem solving Explain scientifically the properties of light Classifying and identifying</p>

	<p>Understand the relationship between light and shadow</p> <p>Problem solving</p> <p>Learn that white light is made up of different coloured light</p>
<p>Habitat Helpers</p> <p>Living things and their habitats</p>	<p>Link to KS1 work on habitats</p> <p>Link to Environmental Interaction and Sustainable Development theme in Geography</p> <p>Learn that there are many different world habitats / biomes e.g. ocean, deserts, rain forest, grasslands, tundra, mountains, freshwater lakes each with its own specially adapted plants and creatures. Learn about adaptations to survive in different places</p> <p>Classifying and identifying, analysing secondary sources</p> <p>Deepen knowledge on what is meant by climate change and what is causing it</p> <p>Understand ways that this can be changed</p> <p>Exploring, fair testing</p> <p>Learn about deforestation, urbanisation, intensive farming and waste management</p> <p>Classifying and identifying, analysing secondary sources</p>