



## Science Long Term Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year R</b>	<b>Class Animals</b> Investigating some similarities and differences between animals, including British wildlife, and observing animals in our local area and around the school grounds.	<b>Light/Dark Autumn</b> Observing and discussing autumn, investigating the weather across a week (discussing how the days get shorter and the clocks go back), introducing light and dark and investigating with torches.	<b>British Animals/Habitats Winter</b> Observing and discussing seasonal changes on a winter walk, learning about the habitats of British animals and exploring their similarities and differences.	<b>Growing/Spring</b> Observing and discussing seasonal changes on a spring walk, planting seeds and learning about how to care for them so they grow, exploring the life cycle of a plant, frog and chicken and observing changes from frogspawn to frog.	<b>Floating/ Sinking</b> Exploring and being introduced to the names of some materials, making simple predictions about which materials will float or sink, carrying out an experiment to test their predictions and using what they learn to then create their own boat.	<b>Under the Sea/ Materials/Summer</b> Learning about the habitat under the sea, (animals/features/food), naming and sorting materials (wood, plastic and fabric) and observing and discussing seasonal changes on a summer walk.
<b>Year 1</b>	<b>Describing Materials</b> Identifying, classifying, naming and sorting materials using tables and Venn diagrams.	<b>Seasons</b> Exploring seasons, carrying out an autumnal walk to explore the features of this season, focusing on the deciduous and evergreen trees, linking with Geography learning on weather.	<b>Animal Survival</b> Identifying and classifying animals into 5 animal groups (fish, amphibians, reptiles, birds and mammals) as well as herbivores and carnivores using Venn/ tables/ diagrams and exploring structure of different animals.		<b>Plants</b> Exploring seeds and bulbs and what they need to grow and survive, performing simple investigations.	<b>Habitats</b> Learning about animals, their habitats and how they are adapted to live in that habitat as well as exploring habitats of wild/garden plants, learning how they are suited to their environment.
<b>Year 2</b>	<b>Changing Materials (fabric)</b> Revising names of materials and their properties, exploring how materials can be changed by a physical force and designing scientific tests on fabrics to answer questions.	<b>Pushes and Pulls</b> Designing and carrying out tests to find out what effects movement of a marble, toy car etc. and exploring what makes a "fair test".	<b>Changing materials (building materials)</b> Further developing their understanding of why certain materials are chosen to do certain jobs, designing and carrying out a test to answer a question.	<b>Animal Survival (humans)</b> Sorting foods into different food groups and exploring why exercise and hygiene are important for humans to thrive.	<b>Animal Life Cycles</b> Exploring life cycles (through pictures and videos as well as looking after caterpillars and then releasing as butterflies), learning about food chains of different animals and drawing diagrams of their findings.	<b>Making New Plants</b> Exploring flowering plants in the classroom and on the school grounds to make predictions and draw conclusions about how a plant can thrive.