



Science Long-Term Plan

Revision of key concepts in blue

Sustainability foci in green

Autumn		Spring	Summer
EYFS Robins	Weather & Climate / Autumn & Winter	Hot & Cold / Changing States / Winter & Spring	Circle of Life / Summer
	<ul style="list-style-type: none"> Identify some Autumnal weather Notice some impacts of weather (puddles, broken branches etc) Know different countries have different climates 	<ul style="list-style-type: none"> Identify different habitats Know there are different types of weather Investigate changes of state Experience planting and growing seeds 	<ul style="list-style-type: none"> Name features of materials Learn about growth and changes Taste foods grown in nursery Talk about food from animals
Year 1 Owls	Human Body / Materials / Seasons	Animals / Caring for the Planet / Seasons	Plants / Growing & Cooking / Seasons
	<ul style="list-style-type: none"> Label parts of the human body and learn about the senses Explore wood, plastic, glass and metal. Learn about changes of state Compare data gathered in autumn and winter 	<ul style="list-style-type: none"> Mammals, birds, reptiles, amphibians Herbivores, carnivores, omnivores Why is it important to care for our planet? Compare data gathered in autumn, winter & spring 	<ul style="list-style-type: none"> Plant seeds and observe them grow Learn about plants and trees in the local environment Where does food come from? Compare data gathered in autumn, winter, spring & summer
Year 2 Swallows	Animals / Humans / Materials	Habitats / Plants (light and dark)	Plants (bulbs and seeds) / Growing Up / Wildlife (sustainability)
	<ul style="list-style-type: none"> Mammals, birds, reptiles, amphibians, humans Exercise, food, hygiene & teeth Compare and investigate properties of materials Plastic and sustainability 	<ul style="list-style-type: none"> Compare local habitats to others (polar, desert, woodland, ocean) Microhabitats Food chains What do plants need to grow? 	<ul style="list-style-type: none"> Plant bulbs and seeds and record their growth Life cycles of humans, mammals, amphibians, butterflies What does wildlife do for us? What can we do for our wildlife?
Year 3 & 4 Golden Eagles	Group and Classify Living Things / States of Matter	Sound / Electricity / Energy	Habitats, Deforestation, Digestive System, Food Chains
	<ul style="list-style-type: none"> Group animals & plants. Vertebrates and invertebrates Classification keys Solids, liquids and gases The water cycle 	<ul style="list-style-type: none"> The ear. Vibrations. Explore and investigate pitch and volume Series circuits. Conductors and insulators. How can we reduce our energy usage? 	<ul style="list-style-type: none"> Classification keys What is the impact of deforestation? The digestive system. Tooth decay experiment. Draw and interpret food chains
Year 5 Herons	Forces / Space / Global Warming	Materials / Animals (including humans) / Life Cycles	Reproduction / Changes / Plastic Pollution
	<ul style="list-style-type: none"> Friction, air resistance, water resistance, gravity Solar system and ideas over time. The planets. The moon. What is the impact of global warming on living things? 	<ul style="list-style-type: none"> Testing materials for magnetism, transparency, conductivity and insulation. Human life cycles. Gestation periods in mammals. Life cycles: mammals, amphibians, birds, insects 	<ul style="list-style-type: none"> Reproduction in animals and plants. Asexual reproduction. Cloning Reversible and irreversible changes. Separation of materials. What are the impacts of plastic pollution on the planet?
Year 6 Merlins	Living things and their habitats / Electricity / Renewable Energy	Light / Circulatory System / Diet, drugs & Lifestyle	Variations / Adaptations / Fossils
	<ul style="list-style-type: none"> Classify animals, plants and organisms. Carl Linnaeus. Series circuits. Complete circuits. Investigate voltage. Using renewable energy 	<ul style="list-style-type: none"> How we see. Shadow formation. Refraction. Blood and the Heart. Oxygenated and deoxygenated blood. Diet, drugs, cigarettes. Heart rate experiment. 	<ul style="list-style-type: none"> Inheritance and characteristics Natural selection. Charles Darwin. Explore fossils. Mary Anning.