

Whole School Long Term Plan: Science

Year B 2020- 2021	Autumn	Spring	Summer
<p>Year R EYFS</p>	<p>All about me, my wishes and dreams</p> <ul style="list-style-type: none"> - Changes since birth - What makes us unique? Eye, hair, skin colour, fingerprints. - Signs of Autumn <p>Celebrations and Festivals</p> <ul style="list-style-type: none"> - A World of Colour - Signs of Winter - Freezing 	<p>People Who Help Us</p> <ul style="list-style-type: none"> - Similarities and differences between ourselves and others - 5 senses - Signs of Spring - Changes of state (making slime) - Friction/gravity (using ramps) <p>Once Upon a Time, Spring and Easter</p> <ul style="list-style-type: none"> - Observations of animals - Herbivores/carnivores - Freezing and melting 	<p>Growing, Lifecycles and In the Garden</p> <ul style="list-style-type: none"> - Life cycles - Growing plants - Sorting and classifying insects - Caring for the environment <p>Oh I Do Like to be Beside the Seaside!</p> <ul style="list-style-type: none"> - Floating and sinking - Recycling
<p>Year 1 & 2</p>	<p>Weather Patterns (Y1)</p> <ul style="list-style-type: none"> - Seasonal weather and daily weather - Forecasts - World weather - Polar weather - Equatorial regions <p>Plants (Y1)</p> <ul style="list-style-type: none"> - Identify and name common wild and garden plants - Identify the basic structure of common flowering plants incl. trees 	<p>People and Pets (Y1)</p> <ul style="list-style-type: none"> - Identify and name common animals incl. fish, amphibians, reptiles, birds and mammals - Identify common animals that are carnivores, herbivores and omnivores <p>Living things (Y2)</p> <ul style="list-style-type: none"> - Differences between living, dead and never been alive - Food chains - Classifying animals 	<p>Habitats and homes</p> <ul style="list-style-type: none"> - Animals and habitats - How the habitat suits the animal - Types of habitat - Micro-habitat <p>Properties of materials – seaside objects (Y1) (sorting and classifying)</p> <ul style="list-style-type: none"> - Explore materials that seaside objects might be made from - Squash, bend, twist, stretch

<p style="text-align: center;">Year 3 & 4</p>	<p>Rocks, soils and fossils (Y3)</p> <ul style="list-style-type: none"> - Types of rock - Properties of rock - Fossil formation - Mary Anning - Soil investigation <p>Teeth/digestive system/food chains (Y4)</p> <ul style="list-style-type: none"> - Investigate digestive system - Types and functions of teeth - Tooth decay investigation 	<p>States of Matter (Y4)</p> <ul style="list-style-type: none"> - Investigate gas/liquid/solid - Water cycle <p>All Living Things (Y4)</p> <ul style="list-style-type: none"> - Grouping and classifying - Vertebrates - Invertebrates - Habitat survey 	<p>Habitats</p> <ul style="list-style-type: none"> - Local and wider environment - Danger posed to living things by changes in the environment <p>Plants (Y3)</p> <ul style="list-style-type: none"> - Parts of plants - What a plant needs to grow/survive - Water transportation
<p style="text-align: center;">Year 5 & 6</p>	<p>Properties and changes of materials (Y5)</p> <ul style="list-style-type: none"> - thermal conductors and insulators - electrical conductors - dissolving - separating mixtures - irreversible changes <p>Forces (Y5)</p> <ul style="list-style-type: none"> - Identify forces acting on objects - Explore gravity - Air resistance - Water resistance - Friction - mechanisms 	<p>Earth and Space (10 week unit) (Y5)</p> <ul style="list-style-type: none"> - Spherical bodies - Planets - Geocentric Versus Heliocentric - Night and day - Movement of the moon 	<p>All living things (Y5) (Lifecycles)</p> <ul style="list-style-type: none"> - plant reproduction - life cycles of mammals - metamorphosis <p>All living things (Y6) (Classification)</p> <ul style="list-style-type: none"> - classifying animals - Linnaean system - Micro organisms

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Year A 2021 - 2022	Autumn	Spring	Summer
<p>Class 1 Year R EYFS</p>	<p>All about me, my wishes and dreams</p> <ul style="list-style-type: none"> - Changes since birth - What makes us unique? Eye, hair, skin colour, fingerprints. - Signs of Autumn <p>Celebrations and Festivals</p> <ul style="list-style-type: none"> - A World of Colour - Signs of Winter - Freezing 	<p>People Who Help Us</p> <ul style="list-style-type: none"> - Similarities and differences between ourselves and others - 5 senses - Signs of Spring - Changes of state (making slime) - Friction/gravity (using ramps) <p>Once Upon a Time, Spring and Easter</p> <ul style="list-style-type: none"> - Observations of animals - Herbivores/carnivores - Freezing and melting 	<p>Growing, Lifecycles and In the Garden</p> <ul style="list-style-type: none"> - Life cycles - Growing plants - Sorting and classifying insects - Caring for the environment <p>Oh I Do Like to be Beside the Seaside!</p> <ul style="list-style-type: none"> - Floating and sinking - Recycling
<p>Class 2 Year 1 & 2</p>	<p>Amazing Me!</p> <ul style="list-style-type: none"> - Investigating Senses - Changes over time <p>Seasonal Changes (Y1)</p> <ul style="list-style-type: none"> - Explore seasons and the weather associated - Investigate rainfall - Compare seasons - Animals in different seasons - Day length 	<p>Animals including humans (Y2)</p> <ul style="list-style-type: none"> - Animals have offspring that grow into adults - Basic needs of animals for survival - Importance of exercise eating the right food and hygiene <p>The Environment</p> <ul style="list-style-type: none"> - Climate change - Recycling - Endangered animals 	<p>Plants (Y2)</p> <ul style="list-style-type: none"> - What plants need to grow and thrive - Plant life cycles <p>Uses of everyday materials (Y1 & Y2) (investigating and problem solving)</p> <ul style="list-style-type: none"> - Properties of materials including wood, plastic, metal, glass, fabric and their uses - Investigate which materials are best for which problems

<p style="text-align: center;">Class 3 Year 3 & 4</p>	<p style="text-align: center;">Motions and Forces (Y3)</p> <ul style="list-style-type: none"> - Surface friction - Forces - Magnets <p style="text-align: center;">Electricity (Y4)</p> <ul style="list-style-type: none"> - Generation of electricity - Complete/incomplete circuits - Conductors and insulators - Investigate switches 	<p style="text-align: center;">Light (Y3)</p> <ul style="list-style-type: none"> - Light/dark - Reflection - Mirrors - Sun safety - shadows <p style="text-align: center;">Sound (Y4)</p> <ul style="list-style-type: none"> - Explain sound sources - Sound travel - Pitch - Absorbing sound - Musical instruments 	<p style="text-align: center;">Animals including humans: nutrition/skeletons & muscles (Y3)</p> <ul style="list-style-type: none"> - Types of nutrition - Types of skeleton - Functions of a skeleton & muscles <p style="text-align: center;">Plants</p> <ul style="list-style-type: none"> - Pollination - Flowers - Bees - seeds
<p style="text-align: center;">Class 4 Year 5 & 6</p>	<p style="text-align: center;">Animals including Humans (Y6) (Heart, blood & diet)</p> <ul style="list-style-type: none"> - circulatory system - transporting water and nutrients - diet and exercise - impact of drugs and alcohol <p style="text-align: center;">Light (Y6) (Behaviour of light & sight)</p> <ul style="list-style-type: none"> - how we see - reflection - refraction - exploring prisms and colour 	<p style="text-align: center;">Electricity (Y6)</p> <ul style="list-style-type: none"> - circuit symbols - effects of volts - investigations <p style="text-align: center;">Evolution and inheritance (Y6) (Adaptation)</p> <ul style="list-style-type: none"> - Inheritance - Adaptation - Evolution - Evidence for evolution - Darwin 	<p style="text-align: center;">Animals, including humans (Y5) (Changes from birth)</p> <ul style="list-style-type: none"> - stages of human development - gestation periods - life expectancy <p style="text-align: center;">Science of sport</p> <ul style="list-style-type: none"> - combination of units