



## Science Overview

Year Group	Autumn	Spring	Summer
Year 1	<b>Animals Including Humans</b> <b>Ourselves</b> <ul style="list-style-type: none"> <li>• Look at how we've changed</li> <li>• Look at our bodies</li> <li>• What can we hear?</li> <li>• How can we sort things using our senses?</li> <li>• Sensory Explorers</li> <li>• Sensory boards and bottles</li> </ul>	<b>Animals Including Humans</b> <b>Pets</b> <ul style="list-style-type: none"> <li>• Environment observation</li> <li>• Where do woodlice live?</li> <li>• Imaginary pets</li> <li>• My animal is healthy and happy</li> <li>• Comparing animals</li> <li>• Bring a pet to school day (Animal observation)</li> </ul>	<b>Plants</b> <b>What's growing in our gardens?</b> <ul style="list-style-type: none"> <li>• Going and growing outside</li> <li>• One potato, Two potato</li> <li>• Garden centre and seeds</li> <li>• What lives in a garden</li> <li>• What's inside a flower?</li> <li>• Growing a flower</li> <li>• What's inside a tree</li> </ul>
	<b>Everyday Materials</b> <b>Let's Build</b> <ul style="list-style-type: none"> <li>• What materials can we find?</li> <li>• Matching materials</li> <li>• Magnets and metal</li> <li>• Sorting materials</li> <li>• Three little pigs and their building materials choices</li> <li>• The three alternative little pigs</li> </ul>	<b>Everyday materials</b> <b>Marvellous Materials</b> <ul style="list-style-type: none"> <li>• Mending a torn umbrella</li> <li>• A pair of boots for... -DT link</li> <li>• Ice observation</li> <li>• Frozen rescue</li> <li>• Puddle observation</li> </ul>	
	<b>Seasonal changes</b> <b>Wonderful Weather</b> <ul style="list-style-type: none"> <li>• What do we know about weather?</li> <li>• Weather watching</li> <li>• Shadow fun</li> <li>• Weather station: Rainfall</li> <li>• Weather station: Wind direction</li> <li>• Weather station: temperature</li> </ul>		
Vocab	<b>KS1 National curriculum words</b>		

## Science Overview

<b>Year 2</b>	<p><b>Animals Including Humans</b> <b>Healthy animals</b></p> <ul style="list-style-type: none"> <li>• Hatching eggs</li> <li>• Babies!</li> <li>• Stranded survival needs!</li> <li>• Healthy hearts</li> <li>• Deep inside my lunch box</li> <li>• Pack a healthy picnic</li> </ul>	<p><b>Everyday Materials</b> <b>Squash, bend, twist, stretch</b></p> <ul style="list-style-type: none"> <li>• Which ball is the bounciest</li> <li>• Which fabric stretches most?</li> <li>• Testing rigidity</li> <li>• Tough and flexible</li> <li>• Which is the strongest paper?</li> <li>• Paper bridges</li> </ul>	<p><b>Living Things and their habitats</b> <b>Gardens and allotments</b></p> <ul style="list-style-type: none"> <li>• Making a playground allotment</li> <li>• Making a micro-habitat</li> <li>• Farming and food chains</li> <li>• Food chain game</li> <li>• Transfer of energy</li> <li>• We are what we eat - food technology link</li> </ul>
	<p><b>Everyday Materials</b> <b>Materials Matter</b></p> <ul style="list-style-type: none"> <li>• Mopping up</li> <li>• Are bricks absorbent?</li> <li>• Waterproof materials</li> <li>• Printing</li> <li>• Resist the wax</li> <li>• Melting and moulding</li> </ul>	<p><b>Living Things and their habitats</b> <b>Habitats</b></p> <ul style="list-style-type: none"> <li>• Dead or alive?</li> <li>• Micro habitats</li> <li>• Habitat dioramas</li> <li>• Food chains</li> <li>• Designing a bug hotel</li> <li>• Making a bug hotel</li> </ul>	<p><b>Plants</b> <b>Ready Steady Grow!</b></p> <ul style="list-style-type: none"> <li>• Spreading seeds</li> <li>• Spreading seeds</li> <li>• Hydroponics in the classroom</li> <li>• Growing cress</li> <li>• How has the bean grown?</li> </ul>
<b>Vocab</b>	<b>KS1 National curriculum words</b>		

# Science Overview

<b>Year 3</b>	<p><b>Plants</b> <b>Roots and Shoots</b></p> <ul style="list-style-type: none"> <li>• Space to grow</li> <li>• Roots, shoots and so much more – labelling diagrams</li> <li>• Water for life</li> <li>• Plant investigation</li> <li>• Flower power – Observational drawing</li> <li>• More about flowers – Flower pollination/ importance of bees</li> <li>• Seed dispersal</li> </ul>	<p><b>Animals including humans</b> <b>Keeping healthy</b></p> <ul style="list-style-type: none"> <li>• Food for thought</li> <li>• A balanced diet - teeth</li> <li>• Bones and skeletons</li> <li>• Muscle and movement</li> <li>• Health and fitness investigation</li> <li>• Personal trainer presentation - research project</li> <li>• <b>Healthy eating DT</b></li> </ul>	<p><b>Forces and Magnets</b> <b>Amazing Magnets</b></p> <ul style="list-style-type: none"> <li>• May the force be with you!</li> <li>• Acting forces – comparative testing</li> <li>• Magnetic attraction</li> <li>• Poles apart</li> <li>• Magnetic fun – designing a game</li> <li>• Fun of the fair – making and evaluating a game</li> </ul>
	<p><b>Rocks</b> <b>Rocks and fossils</b></p> <ul style="list-style-type: none"> <li>• Rock stars! Classifying rocks</li> <li>• Rock detectives – comparative testing</li> <li>• Rock survey</li> <li>• Fantastic fossils</li> <li>• Soil detectives - comparative testing</li> <li>• Rock and fossil museum – Presentation PowerPoint</li> </ul>		<p><b>Light</b> <b>Light and Shadows</b></p> <ul style="list-style-type: none"> <li>• What is light?</li> <li>• Reflectors and lights</li> <li>• Mirror, Mirror – bending light</li> <li>• Shadows</li> <li>• Shadow investigation</li> <li>• What an performance- shadow performance</li> </ul>
<b>Vocab</b>	<p><b>KS2 National curriculum words</b></p>		

## Science Overview

<b>Year 4</b>	<p><b>States of Matter</b> <b>States of Matter Scientists</b></p> <ul style="list-style-type: none"> <li>• Solid or liquid?</li> <li>• It's a bit gassy</li> <li>• Particle party – temperature taker</li> <li>• Evaporation and condensation</li> <li>• Make it rain</li> <li>• Science fair – PowerPoint/ Presentation of states of Matter</li> </ul>	<p><b>Sound</b> <b>Listen Up</b></p> <ul style="list-style-type: none"> <li>• Sound walk</li> <li>• Good vibrations</li> <li>• Pitch and Volume - Investigation</li> <li>• Pardon? – Muffling sound investigation</li> <li>• SSSHHHHhhh! – Sound travelling investigation</li> <li>• Rock Star challenge – designing ear defenders</li> </ul>	<p><b>Animals including humans</b> <b>Are these your teeth?</b></p> <ul style="list-style-type: none"> <li>• Excuse me are these your teeth? – Animal teeth</li> <li>• What happens to my food?</li> <li>• What does the small intestine do?</li> <li>• What did this poo?</li> <li>• Who's the predator?</li> <li>• How did you know? - Presentation</li> </ul>
	<p><b>Electricity</b> <b>It's Electric</b></p> <ul style="list-style-type: none"> <li>• Electrical fun</li> <li>• Understanding electrical safety</li> <li>• Building a circuit</li> <li>• Good conductor, Bad conductor</li> <li>• Explain what you know</li> <li>• It's electric – Designing a game</li> </ul>	<p><b>Living Things and their habitats</b> <b>Name that Living Thing</b></p> <ul style="list-style-type: none"> <li>• What is that? – Life processes poster</li> <li>• Local living things – what are they?</li> <li>• How are living things classified</li> <li>• Closer inspection – branching database</li> <li>• Enormous insects – Model of insect</li> <li>• I'm thinking of a living thing – Knowledge quiz</li> </ul>	<p><b>Living Things and their habitats</b> <b>Help Our Habitats</b></p> <ul style="list-style-type: none"> <li>• Our environment</li> <li>• Other changes – Natural and man-made changes</li> <li>• Climate change</li> <li>• Impact of change</li> <li>• Help Our habitat</li> <li>• Positive impacts</li> </ul>
<b>Vocab</b>	<b>KS2 National curriculum words</b>		
<b>Year 5</b>	<p><b>Earth and Space</b> <b>Space Presenters</b></p> <ul style="list-style-type: none"> <li>• Coming up with the intergalactic goods! – Movement of the earth and planets</li> <li>• Planetary scales – model the solar system</li> <li>• How the solar system works</li> <li>• Day and Night- Changing shadows</li> <li>• Sun dial designers – time zone detectives</li> <li>• A moon Month</li> </ul>	<p><b>Changes of Materials</b> <b>Changing Materials</b></p> <ul style="list-style-type: none"> <li>• Soluble solutions</li> <li>• Separation Solutions</li> <li>• Chemistry of Cooking</li> <li>• Oxidation sensation – Irreversible change investigation</li> <li>• Chemistry Kitchen – Key Scientists</li> <li>• Science Fair – Audience testing – Explanation writing</li> </ul>	<p><b>Living Things and their habitats</b> <b>Art of Living</b></p> <ul style="list-style-type: none"> <li>• Sexual reproduction in flowers</li> <li>• Asexual reproduction in flowers</li> <li>• Insect and amphibian lifecycles</li> <li>• Mammals and birds- lifecycles</li> <li>• Lifecycles from around the world – comparative research</li> <li>• Meeting and becoming natural scientists – presentation</li> </ul>

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	<p><b>Properties of Materials</b> <b>Refugee Materials</b></p> <ul style="list-style-type: none"> <li>• Survival materials challenge – classifying materials</li> <li>• Keeping hot, Keeping cold</li> <li>• Food packaging challenge</li> <li>• Cleaning material challenge</li> <li>• Electrical health and safety</li> <li>• Keeping the sound contained</li> </ul>	<p><b>Forces</b> <b>May the Forces be With You</b></p> <ul style="list-style-type: none"> <li>• Forces mission training camp – Isaac Newton theory</li> <li>• Parachuting in - Investigation</li> <li>• Lever and Pulley challenge</li> <li>• Bike Lever Challenge – Friction testing</li> <li>• Goldilocks path Challenge – Friction on surfaces</li> <li>• Boat Challenge – water resistance</li> </ul>	<p><b>Animals including humans</b> <b>Life Explorers</b></p> <ul style="list-style-type: none"> <li>• Gestation Gurus – Human life stages</li> <li>• Foetal development – human or animal</li> <li>• Growth and change – baby and child</li> <li>• Growth and change – Adolescence and puberty</li> <li>• Growth and change – Adults and Old age</li> <li>• Human timeline</li> </ul>
<b>Vocab</b>	<p><b>KS2 National curriculum words</b></p>		
<b>Year 6</b>	<p><b>Living Things and their habitats</b> <b>Marvellous Microorganisms</b></p> <ul style="list-style-type: none"> <li>• Finding Linnaeus – Key scientist</li> <li>• Odd One Out – Classifying</li> <li>• Classification charts – Aliens/ sweets</li> <li>• Classification in your backyard</li> <li>• Quirky creatures – microorganisms investigation</li> <li>• New creature features – Design classification process</li> </ul>	<p><b>Electricity</b> <b>Electrical Celebration</b></p> <ul style="list-style-type: none"> <li>• Electrical festive challenge – Designing lights for a festival – what challenges are there?</li> <li>• Playing with electricity – Investigating circuits</li> <li>• Designs, ideas and circuit diagrams</li> <li>• Create a dimmer switch</li> <li>• Create festive lights prototypes</li> <li>• Entering the ‘Dragon’s Den’ – explain design features</li> </ul>	<p><b>Animals including humans</b> <b>The Art of Being Human</b></p> <ul style="list-style-type: none"> <li>• Blood composition and function</li> <li>• The heart</li> <li>• Nutrient detective</li> <li>• The circulatory systems</li> <li>• A healthy body; diet exercise and lifestyle</li> <li>• A healthy body; Drugs and alcohol</li> </ul>

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	<b>Evolution and Inheritance</b> <b>Game of Survival</b> <ul style="list-style-type: none"> <li>• Inheritance detective</li> <li>• Mutations and adaptations</li> <li>• Extreme survival</li> <li>• Meet the evolutionary pioneers</li> <li>• Evolutionary trees and Fossils</li> <li>• Presentation/ Own animal</li> </ul>	<b>Light</b> <b>Crime Lab Investigation</b> <ul style="list-style-type: none"> <li>• Light Specialist required- Light travelling, behaviour etc.</li> <li>• Light travels in straight lines</li> <li>• Up periscope</li> <li>• Shadow giants – thief shadow</li> <li>• Rainbow world</li> <li>• A trick of the colourful light filters</li> </ul>	<b>Second Look Science</b> <b>The science of Sport</b> <ul style="list-style-type: none"> <li>• Tantalising turf – grass investigation</li> <li>• Sports kits and equipment enquiries – materials testing</li> <li>• Harnessing Sports forces – friction, air resistance</li> <li>• Human body and sports – Body investigation</li> <li>• Sports talent – Inheritance or training</li> <li>• Lighting up Sports stadium- circuits and conductors</li> </ul>