

# Excellence and Enjoyment, Everyone and Everything. "God created you to be amazing" Ephesians 2:10

## Science Whole School Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	<p><b>Elmer the Elephant</b> – can you use the magnet to make Elmer a colourful coat?</p> <p><b>Dachy's Deaf</b> – Can you help Dachy's friends find out about loud and quiet sounds</p>	<p><b>Goldilocks and the Three Bears</b> – Which cereal will be the soggiest when the bears get back from their walk?</p> <p><b>Peace at Last</b> – Can you help make it quiet for Mr Bear to sleep?</p> <p><b>The Gruffalo's Child</b> – can you help the mouse make a big shadow to scare away the Gruffalo's child?</p>	<p><b>Astro Child</b> – can you launch a rocket into space?</p> <p><b>Look Up</b> – can you use the stars to find your way around the night sky?</p>		<p><b>Brown Bear, Brown Bear what do you see?</b> Can you use colour paddles to hide the animals from Brown Bear?</p> <p><b>The Three Little Pigs</b> – can you build a strong house for the three little pigs?</p>	<p><b>My Ocean is Blue</b> – can you make an ocean in a bottle?</p> <p><b>Mr Archimedes' Bath</b> – Can you fill the bath without spilling any water?</p> <p><b>How to find Gold</b> – can you make a boat to help Anna and Crocodile find the sunken gold?</p>
Year 1	<p><b>Animals including humans</b> Identifying, classifying and grouping How can we organise these animals? <b>Pattern Seeking</b> <i>What conditions do they think woodlice would prefer to live in?</i></p>		<p><b>Everyday Materials</b> <b>Pattern Seeking</b> Is there a pattern in the types of materials that are used to make objects in a school? Comparative fair testing Which material is best at waterproofing?</p>		<p><b>Plants</b> Identifying, classifying and grouping- How can we sort the leaves collected from our walk?</p>	
	<p><b>Seasonal changes- Observation over time</b> How does an oak tree change over time?</p>					
Year 2	<p><b>Living things and their habitats</b> Identifying and classifying How would you group these plants and animals based on what habitat you would find them in?</p>		<p><b>Animals including humans</b> Which exercise increases our heart rate the most?</p>	<p><b>Materials</b> <b>Comparative fair testing</b> Which material is best for absorbency of water?</p>	<p><b>Plants</b> <b>Observation over time</b> What happens to my bean after I have planted it? <b>Comparative Fair Testing</b> What conditions does cress need to grow best?</p>	
Year 3	<p><b>Plants</b> <b>Comparative Fair Testing</b> Does temperature impact on the speed at which water transports up a flower?</p>	<p><b>Animals including humans</b> Why do animals and humans have skeletons?</p>	<p><b>Rocks and soils</b> <b>Identifying, classifying and grouping</b> Can you use the identification key to find out the name of</p>	<p><b>Forces and magnets</b> Comparative fair testing Do cars travel the same on different surfaces?</p>		<p><b>Light</b> <b>Observation over time</b> Does my shadow change throughout the day? <b>Comparative Fair testing</b></p>

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			each of the rocks in your collection?  <b>Comparative Testing-</b> Are all rocks permeable?		Do shadows change according to distance from the light?	
Year 4	<b>Animals including humans Research</b> Do carnivores and herbivores have different types of teeth?	<b>Sound</b> <b>Pattern Seeking/Comparative fair testing</b> Is there a pattern between the pitch of the sound and feature of the object that produced it? Is there a pattern between the volume of a sound and the strength of the vibrations that produced it?	<b>States of matter</b> <b>Observations over time</b> What happens to water when you heat it? <b>Comparative Fair Testing</b> Does the size of an ice cube impact the rate of melting?	<b>Living things and their habitats</b> <b>Identifying, classifying and grouping</b> How can we use a classification key to organise living things?	<b>Animals including humans Research</b> What impact do creatures have on a food chain?	<b>Electricity</b> <b>Pattern Seeking</b> Are all metals good electrical conductors?
Year 5	<b>Forces</b> <b>Comparative Fair Testing</b> Does the size of a parachute affect how long it takes to fall? Does the material on a ramp affect friction?	<b>Earth and Space</b> <b>Identifying and classifying</b> Can you observe and identify all the phases in the cycle of the Moon?	<b>Forces</b> <b>Observation over time</b> How long does a pendulum swing before it stops?	<b>Properties and changes of materials</b> <b>Observation over time</b> How does salt water change when left out over time?  <b>Research</b> What are microplastics and how are they impacting our oceans?  <b>Animals including humans (through RSE)</b>	<b>Living things and their habitats</b> <b>Pattern Seeking</b> How do life cycles differ between animals?  <b>Observation over time</b> How do spider plants reproduce?	
Year 6	<b>Evolution and Inheritance Research</b> How do animals adapt to their environment in polar regions compared to the desert?	<b>Living things and their habitats</b> <b>Identifying, Classifying and grouping</b> How are living things classified into broad groups based on characteristics? <b>Observation over time</b>	<b>Electricity</b> <b>Comparative fair testing</b> How can I make a bulb brighter?	<b>Light</b> <b>Comparative Fair testing</b> How does the angle that a light ray hits a plane mirror affect the angle at which it reflects off the surface?	<b>Animals including humans</b> <b>Comparative fair testing</b> Do bananas make you run faster? <b>Observation over time</b> How does my heart rate change as a run for a period of time?	

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		Which conditions do mould grow best in?			
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