

Science Whole School Long Term Overview

Year Group	A1	A2	Sp1	Sp2	Su1	Su2
EYFS	<u>Biology: Why do I get out of puff when I run?</u> Humans – exercising & naming body parts	<u>Biology: Are all animals the same?</u> Animals – habitats and naming <u>Biology:</u>	<u>Biology: What do we know about dinosaurs?</u> Animals – Naming & classifying <u>Biology:</u>	<u>Biology: What grows in my garden?</u> Plants – naming and observing	<u>Biology: What are plants and animals called?</u> Plants – naming	<u>Chemistry: What are things made of?</u> Everyday materials – fit for purpose
	<u>Physics: Will the plants we see from Copse Corner stay the same all year?</u> Create a season's display that changes across the year to reflect each season in images.					
KS1 Cycle A	<u>Chemistry: What would Traction man use to build our school?</u> Everyday materials – naming and selecting for different tasks		<u>Biology: Why would a dinosaur not make a good pet? (Or a lonely beast)</u> Animals – habitats & food chains	<u>Biology: How quickly do plants grow?</u> Plants – How do plants grow? How do they stay healthy?		
KS1 Cycle B	<u>Biology: How will five-a-day keep me healthy? (Link to Harvest)</u> Humans – Exercising & keeping healthy	<u>Physics: Why are there so many leaves on the floor?</u> Seasonal change – know about seasonal change <i>+ Brief introduction include Electricity - <u>How do we light up Christmas?</u> / Forces – <u>How do things move?</u> (To provide some grounding for KS2 work and due to overlap with Geography unit)</i>	<u>Biology: Why are humans not like tigers?</u> Animals – Classifying & lifecycles	<u>Biology: Which plants and birds would Evie find around our school grounds? / at the park?</u> Plants – Parts of plants & trees		
LKS2 Cycle A	<u>Physics: How far can you throw your shadow?</u> Light & dark – reflections & shadows	<u>Physics: Why is the sound made by *** loved by so many?</u> Sound – Sound vibrations, pitch & volume	<u>Biology: What happens to the food we eat?</u> Animals including humans – Digestive system and teeth	<u>Biology: Which animals and plants thrive in our local environment?</u> Plants & animals – Basic structure and functions, life cycles, transportation of water, classification of plants and animals		

<p>LKS2 Cycle B</p>	<p>Physics: How would you cope for a day without electricity? Electricity – Simple circuits & switches, conductors and insulators</p>	<p>Physics: What do rocks tell us about the way the Earth was formed? / Are you attractive enough? (Go into Spring term) Rocks & Magnets – Fossil formation, compare and group rocks, soil, different forces, magnets</p>	<p>Chemistry: How would we survive without water? States of matter – Solids, liquids & gases</p>	<p>Biology: How can Usain Bolt run so fast? Humans – skeleton, muscles, exercise and health</p> <p>Day & Night</p>	
<p>UKS2 Cycle A</p>	<p>Biology: Do all animals start life as an egg & how different will you be when you are as old as your grandparents? Animals including humans and their habitat -</p> <ul style="list-style-type: none"> <input type="checkbox"/> Life cycles – plants and animals <input type="checkbox"/> Reproductive processes <input type="checkbox"/> Classification of living things and the reasons for it <input type="checkbox"/> Changes as humans develop from birth to old age 	<p>Chemistry: Could you be the next CSI investigator? Properties and changes in materials –</p> <ul style="list-style-type: none"> <input type="checkbox"/> Compare properties of everyday materials <input type="checkbox"/> Soluble/ dissolving <input type="checkbox"/> Reversible and irreversible substances 	<p>Physics: Does everything that goes up always come down? Forces –</p> <ul style="list-style-type: none"> <input type="checkbox"/> Gravity <input type="checkbox"/> Friction <input type="checkbox"/> Forces and motion of mechanical devices <input checked="" type="checkbox"/> Magnets 	<p>Physics: How can you light up your life? Light –</p> <ul style="list-style-type: none"> <input type="checkbox"/> How light travels <input type="checkbox"/> Reflection <input type="checkbox"/> Ray models of light 	
<p>UKS2 Cycle B</p>	<p>Biology: Have we always looked like this? Evolution & Inheritance -</p> <ul style="list-style-type: none"> <input type="checkbox"/> Identical and non identical off-spring <input type="checkbox"/> Fossil evidence and evolution <input type="checkbox"/> Adaptation and evolution 	<p>Physics: Is there anybody out there? Earth & Space – - Movement of the Earth and other planets relative to the Sun -</p>	<p>Biology: Why is your heart the most important pump you own? Animals including humans –</p> <ul style="list-style-type: none"> <input type="checkbox"/> The circulatory system <input type="checkbox"/> Water transportation <input type="checkbox"/> Impact of exercise on body 	<p>Physics: Could you be the next Nintendo apprentice? Electricity –</p> <ul style="list-style-type: none"> <input type="checkbox"/> Electrical components <input type="checkbox"/> Simple circuits <input type="checkbox"/> Fuses and voltage <input type="checkbox"/> 	

		<p>Movement of the Moon relative to the Earth</p> <ul style="list-style-type: none">-Night and day-Describe the Sun, Earth and Moon (using the term spherical)		
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