



WOODVALE PRIMARY ACADEMY

Science Long-Term Planning 2021-22: Cornerstones units and LTI units

Year Group:	Autumn 1:	Autumn 2:	Spring 1:	Spring 2:	Summer 1:	Summer 2:
Nursery	Why do you love me so much?	Why do leaves go crispy?	Where does snow go?	Sunshine and Flowers	How high can I jump?	Big Wide World Splash!
Reception	Me and My Community Exploring Autumn	Starry Night Winter Wonderland	Dangerous Dinosaurs Puddles and Rainbows	Ready Steady Grow Signs of Spring	Once upon a time Sparkle and Shine	On the Beach Move it and Moving on
Year 1	Everyday Materials (LTI) <i>Working Scientifically</i> <i>Everyday Materials</i> Humans (LTI) <i>Working Scientifically</i> <i>Animals including Humans</i>	Moon Zoom <i>Working Scientifically</i> <i>Everyday Materials</i> How does it feel? (LTI) <i>Working Scientifically</i> <i>Everyday Materials</i> What keeps us dry? (LTI) <i>Working Scientifically</i> <i>Everyday Materials</i>	Bright Lights, Big City <i>Working Scientifically</i> Seasonal Changes (LTI) <i>Working Scientifically</i> <i>Plants</i> <i>Seasonal Changes</i>	Paws, Claws & Whiskers <i>Working Scientifically</i> <i>Animals including Humans</i> What can our hands do? (LTI) <i>Working Scientifically</i> <i>Animals including Humans</i> Can you leap like a frog? (LTI) <i>Animals including Humans</i> <i>Working Scientifically</i> What can worms sense? (LTI)	Splendid Skies <i>Working Scientifically</i> <i>Seasonal Changes</i> Are all leaves the same? (LTI) <i>Working Scientifically</i> <i>Plants</i> How big is a raindrop? (LTI) <i>Seasonal Changes</i> <i>Working Scientifically</i> How wild is the wind? (LTI) <i>Seasonal Changes</i> <i>Working Scientifically</i>	Animals (LTI) <i>Animals including Humans</i> <i>Working Scientifically</i> Plants (LTI) <i>Working Scientifically</i> <i>Plants</i>

				Animals including Humans Working Scientifically		
Year 2	Wriggle & Crawl <i>Working Scientifically</i> <i>Living things and their habitats</i> <i>Animals including humans</i> Where do snails live? (LTI) <i>Working Scientifically</i> <i>Living things and their habitats</i>	How do germs spread? (LTI) <i>Working Scientifically</i> <i>Animals including humans</i> Humans (LTI) <i>Working Scientifically</i> <i>Animals including Humans</i> Living things and their Habitats (LTI) <i>Working Scientifically</i> <i>Living things and their Habitats</i>	Beat Band Boogie <i>Working Scientifically</i> Can water make music? (LTI) <i>Working scientifically;</i> <i>Uses of everyday materials</i>	The Scented Garden <i>Working Scientifically</i> <i>Plants</i> Can seeds grow anywhere? (LTI) <i>Working Scientifically</i> <i>Plants</i> How does grass grow? (LTI) <i>Working Scientifically</i> <i>Plants</i>	Animals (LTI) <i>Working Scientifically</i> <i>Animals including Humans</i> <i>Living things and their Habitats</i>	Will it degrade? (LTI) <i>Working Scientifically</i> <i>Living things and their habitats</i> Plants (LTI) <i>Working Scientifically</i> <i>Plants</i> <i>Living things and their Habitats</i> Uses of Everyday Materials (LTI) <i>Working Scientifically</i> <i>Everyday Materials</i>

	What is the life cycle of the ladybird? (LTI) <i>Working Scientifically</i> <i>Living things and their habitats</i>					
--	--	--	--	--	--	--

	<i>Animals including humans</i>					
Year 3	Urban Pioneers <i>Working Scientifically</i> <i>Light</i> Why do cat's eyes glow at night? (LTI) <i>Working scientifically</i> <i>Light</i> Why do shadows change? (LTI) <i>Working scientifically</i> <i>Light</i>	Rocks, Relics & Rumbles <i>Working scientifically</i> <i>Rocks</i> Forces and Magnets (LTI) <i>Working Scientifically</i> <i>Forces and Magnets</i>	Animals including Humans (LTI) <i>Working Scientifically</i> <i>Animals including Humans</i>	Mighty Metals <i>Working Scientifically</i> <i>Forces & Magnets</i> Why do magnets attract and repel? (LTI) <i>Working scientifically</i> <i>Forces & Magnets</i> How mighty are magnets? (LTI) <i>Working Scientifically</i> <i>Forces & Magnets</i>	Predator! <i>Working Scientifically</i> <i>Plants</i> <i>Animals including humans</i> <i>Rocks</i> What are flowers for? (LTI) <i>Working Scientifically</i> <i>Plants</i> What are our joints for? (LTI) <i>Working Scientifically</i> <i>Animals including humans</i> What do owls eat? (LTI) <i>Working Scientifically</i> <i>Animals including humans</i>	Plants (LTI) <i>Working Scientifically</i> <i>Plants</i> Light (LTI) <i>Working Scientifically</i> <i>Plants</i>
Year 4	Sound (LTI) <i>Working Scientifically</i> <i>Sound</i>	Playlist <i>Sound</i>	Burps, Bottoms & Bile <i>Working Scientifically</i>	Misty Mountain, Winding River	Electricity (LTI) <i>Working Scientifically</i> <i>Electricity</i>	Blue Abyss <i>Working Scientifically</i>

--	--	--	--	--	--	--

		<p>How do plugs work? (LTI) Working Scientifically Electricity</p> <p>What conducts electricity? (LTI) Working Scientifically Electricity</p> <p>How far can sound travel? (LTI) Working scientifically Sound</p>	<p><i>Animals including humans.</i></p> <p>How do smells get up your nose? (LTI) Working Scientifically States of Matter</p> <p>What is spit for? (LTI) Working Scientifically Animals including humans</p> <p>How does toothpaste protect teeth? (LTI) Working scientifically; Animals, including humans</p>	<p><i>Living things and their habitats</i></p> <p><i>States of Matter</i></p> <p>States of matter (LTI) Working Scientifically States of Matter</p> <p>Living things and their Habitats (LTI) Working Scientifically Living things and their Habitats</p>		<p><i>Living things and their habitats</i></p> <p><i>Animals including humans</i></p> <p>Are all sea creatures the same? (LTI) Working scientifically; Living things and their habitats</p> <p>How does pollution affect habitats? (LTI) Working scientifically; Living things and their habitats</p>
--	--	--	--	---	--	---

<p>Year 5</p>	<p>Alchemy Island <i>Working Scientifically</i> <i>Properties and Changes of Materials</i> Can you clean dirty water? (LTI) <i>Properties and Changes of Materials</i> <i>Working Scientifically</i> Will it erupt? (LTI) <i>Properties and Changes of Materials</i> <i>Working Scientifically</i></p>	<p>Stargazers <i>Working Scientifically</i> <i>Properties and Changes of Materials</i> <i>Earth & Space</i> How do we know the Earth is round? (LTI) <i>Working Scientifically</i> <i>Earth & Space</i> Can we track the sun? (LTI) <i>Working Scientifically</i> <i>Earth & Space</i> How does the moon move? <i>Working Scientifically</i> <i>Earth & Space</i></p>	<p>Earth and Space (LTI) <i>Working Scientifically</i> <i>Earth & Space</i> Forces (LTI) <i>Forces</i> <i>Working Scientifically</i></p>	<p>Sow, Grow & Farm <i>Working Scientifically</i> <i>Living things and their habitats</i> Animals including Humans (LTI) <i>Animals including Humans</i> <i>Living things and their Habitats</i> <i>Working Scientifically</i></p>	<p>Properties and Changes of Materials (LTI) <i>Working Scientifically</i> <i>Properties and Changes of Materials</i></p>	<p>Time Traveller <i>Working Scientifically</i> <i>Living things and their habitats</i> <i>Animals including humans</i> Do we slow down as we get older? (LTI) <i>Animals including Humans</i> <i>Working Scientifically</i></p>
----------------------	---	---	---	--	--	--

<p>Year 6</p>	<p>Blood Heart <i>Working Scientifically</i> <i>Animals including humans</i> What's in blood? (LTI) <i>Working Scientifically</i> <i>Animals including humans</i> What can your heart rate tell you? (LTI) <i>Working Scientifically</i> <i>Animals including humans</i></p>	<p>Evolution and Inheritance (LTI) <i>Working Scientifically</i> <i>Evolution and Inheritance</i> Light (LTI) <i>Working Scientifically</i> <i>Light</i></p>	<p>Frozen Kingdom <i>Working Scientifically</i> <i>Living things and their habitats</i> <i>Evolution & Inheritance</i> Why are things classified? (LTI) <i>Working Scientifically</i> <i>Living things and their habitats</i> Electricity (LTI) <i>Working Scientifically</i> <i>Electricity</i></p>	<p>Tomorrow's World <i>Working Scientifically</i> <i>Light</i> <i>Electricity</i> How does light travel? (LTI) <i>Working Scientifically</i> <i>Light</i> Can you see through it? (LTI) <i>Working scientifically;</i> <i>Light</i></p>	<p>Animals including Humans (LTI) <i>Working Scientifically</i> <i>Animals including Humans</i></p>	<p>Darwin's Delights <i>Working Scientifically</i> <i>Living things and their Habitats</i> <i>Evolution & Inheritance</i> How have eyes evolved? (LTI) <i>Working Scientifically</i> <i>Evolution & Inheritance</i> <i>Light</i> Where do wild plants grow best? (LTI) <i>Working Scientifically</i> <i>Living things and their Habitats</i> <i>Evolution & Inheritance</i> Why do birds have different beaks? (LTI) <i>Working Scientifically</i> <i>Evolution & Inheritance</i></p>
----------------------	---	---	--	---	--	---