



WOODVALE PRIMARY ACADEMY

Science Long-Term Plan 2020-21: Cornerstones Curriculum Unit

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?	Are eggs alive?	How high can I jump?	How many pebbles on the beach?
Reception	What is a reflection?	Why do squirrels hide their nuts? What happens when I fall asleep?	Do you want to be friends?	Do cows drink milk?	Will you read me a story?	Are we there yet? Who lives in a rock pool?
Year 1	Childhood Funny Faces & Fabulous Features	Moon Zoom <i>Working Scientifically</i> <i>Everyday Materials</i>	Bright Lights, Big City <i>Working Scientifically</i> How does it move? (LTI) <i>Working Scientifically</i> How big is a raindrop? (LTI) <i>Working Scientifically</i> <i>Seasons</i> Does it snow in summer? (LTI) <i>Working Scientifically</i> <i>Seasons</i> How wild is the wind? (LTI) <i>Working Scientifically</i> Taxi!	Paws, Claws & Whiskers <i>Working Scientifically</i> <i>Animals including</i> <i>Humans</i> What can our hands do? (LTI) <i>Working Scientifically</i> <i>Animals including</i> <i>Humans</i>	Splendid Skies <i>Working Scientifically</i> <i>Seasonal Changes</i> Are all leaves the same? (LTI) <i>Working Scientifically</i> <i>Plants</i>	School Days Street View

<p>Year 2</p>	<p>Wriggle & Crawl <i>Working Scientifically</i> <i>Living things and their habitats</i> <i>Animals including humans</i></p> <p>Where do snails live? (LTI) <i>Working Scientifically</i> <i>Living things and their habitats</i></p> <p>Do insects have a favourite colour? (LTI) <i>Working Scientifically</i> <i>Living things and their habitats</i> <i>Animals including humans</i></p> <p>Do snails have noses? (LTI) <i>Working Scientifically</i> <i>Living things and their habitats</i> <i>Animals including humans</i></p>	<p>Movers & Shakers How do germs spread? (LTI) <i>Working Scientifically</i> <i>Animals including humans</i></p> <p>Can you make a paper bridge? (LTI) <i>Working Scientifically</i> <i>Everyday Materials</i> <i>Still life</i></p>	<p>Beat Band Boogie <i>Working Scientifically</i></p> <p>Can water make music? (LTI) <i>Working scientifically;</i> <i>Uses of everyday materials</i></p>	<p>The Scented Garden <i>Working Scientifically</i> <i>Plants</i></p> <p>What's on your wellies? (LTI) <i>Working Scientifically</i> <i>Plants</i></p> <p>Can seeds grow anywhere? (LTI) <i>Working Scientifically</i> <i>Plants</i></p> <p>How does grass grow? (LTI) <i>Working Scientifically</i> <i>Plants</i></p>	<p>Magnificent Monarchs</p>	<p>Beach Hut Coastline Will it degrade? (LTI) <i>Working Scientifically</i> <i>Living things and their habitats</i></p>
----------------------	--	---	--	--	------------------------------------	--

	<p>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></p>					
--	--	--	--	--	--	--

<p>Year 3</p>	<p>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> What are sunglasses for? <i>Working scientifically;</i> <i>Light</i> Prehistoric Pots</p>	<p>Rocks, Relics & Rumbles <i>Working scientifically</i> <i>Rocks</i> How do fossils form? (LTI) <i>Working scientifically</i> <i>Rocks</i> What is sand? (LTI) <i>Working scientifically</i> <i>Rocks</i> What is soil? (LTI) <i>Working scientifically</i> <i>Rocks</i> Ammonite</p>	<p>Through the ages</p>	<p>Mighty Metals <i>Working Scientifically</i> <i>Forces & Magnets</i> Can you block magnetism? (LTI) <i>Working scientifically</i> <i>Forces & Magnets</i> Why do magnets attract and repel? (LTI) <i>Working scientifically</i> <i>Forces & Magnets</i> What does friction do? (LTI) <i>Working scientifically</i> <i>Forces & Magnets</i> How mighty are magnets? (LTI) <i>Working Scientifically</i> <i>Forces & Magnets</i></p>	<p>Emperors and Empires</p>	<p>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> Why are trees tall? (LTI) <i>Working Scientifically</i> <i>Plants</i> What do owls eat? (LTI) <i>Working Scientifically</i> <i>Animals including humans</i> How do worms move? (LTI) <i>Working Scientifically</i> <i>Animals including humans</i></p>
----------------------	---	---	--------------------------------	---	------------------------------------	--

Year 4	I am warrior! Did the Romans use toilet roll? (LTI)	Playlist Sound	Burps, Bottoms & Bile Working Scientifically	Misty Mountain, Winding River	Traders & Raiders	Blue Abyss Working Scientifically
--------	--	-------------------	---	----------------------------------	-------------------	--------------------------------------

	<p><i>Working scientifically</i></p> <p>How do plugs work? (LTI) <i>Working Scientifically</i> <i>Electricity</i></p> <p>What conducts electricity? (LTI) <i>Working Scientifically</i> <i>Electricity</i></p> <p>Can you make a circuit from playdough? (LTI) <i>Working Scientifically</i> <i>Electricity</i></p> <p>Can we block sound? (LTI) <i>Working scientifically</i> <i>Sound</i> <i>Electricity</i></p> <p>How can we change a sound? (LTI) <i>Working scientifically</i> <i>Sound</i></p> <p>How far can sound travel? (LTI) <i>Working scientifically</i> <i>Sound</i></p>	<p><i>Animals including humans.</i></p> <p>How do smells get up your nose? (LTI) <i>Working Scientifically</i> <i>States of Matter</i></p> <p>What is spit for? (LTI) <i>Working Scientifically</i> <i>Animals including humans</i></p> <p>How does toothpaste protect teeth? (LTI) <i>Working scientifically;</i> <i>Animals, including humans</i></p>	<p><i>Living things and their habitats</i> <i>States of Matter</i></p> <p>What do squirrels eat? (LTI) <i>Working scientifically</i> <i>Animals including humans</i> <i>Living things and their habitats</i></p> <p>Where does water go? (LTI) <i>Working Scientifically</i> <i>States of Matter</i></p> <p>Why does it flood? (LTI) <i>Working Scientifically</i> <i>States of Matter</i> <i>Living things and their habitats</i></p> <p>Can worms sense danger? (LTI) <i>Working scientifically</i> <i>Animals including humans</i> <i>Living things and their habitats</i></p> <p>Vista</p>	<p>How did Vikings dye their clothes? (LTI) <i>Working scientifically;</i></p>	<p><i>Living things and their habitats</i> <i>Animals including humans</i></p> <p>Are all sea creatures the same? (LTI) <i>Working scientifically;</i> <i>Living things and their habitats</i></p> <p>How does pollution affect habitats? (LTI) <i>Working scientifically;</i> <i>Living things and their habitats</i></p>
--	---	--	--	---	--

<p>Year 5</p>	<p>Alchemy Island <i>Working Scientifically Properties and Changes of Materials</i></p>	<p>Stargazers <i>Working Scientifically Properties and Changes of Materials Earth & Space</i> Why are zip-wires so fast? <i>Working Scientifically Forces</i> How do rockets lift off? <i>Working Scientifically Properties and Changes of Materials</i> How do levers help us? <i>Working Scientifically Forces</i> How does the moon move? <i>Working Scientifically Earth & Space</i></p>	<p>Pharaohs</p>	<p>Sow, Grow & Farm <i>Working Scientifically Living things and their habitats</i> Eat the Seasons</p>	<p>Off with her head!</p>	<p>Time Traveller <i>Working Scientifically Living things and their habitats Animals including humans</i></p>
----------------------	---	--	-----------------	---	---------------------------	---

<p>Year 6</p>	<p>Blood Heart <i>Working Scientifically</i> <i>Animals including humans</i> How does blood flow? (LTI) <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>Hola Mexico! <i>Light</i> How can we make red? (LTI) <i>Working Scientifically</i> What colour is a shadow? (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> Can we slow cooling down? <i>Working Scientifically</i> <i>Evolution & Inheritance</i> How do animals stay warm? <i>Working Scientifically</i> <i>Evolution & Inheritance</i> <i>Inuit</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> What are reflections? (LTI) <i>Working scientifically;</i> <i>Light</i> Can you see through it? (LTI) <i>Working scientifically;</i> <i>Light</i> Can you turn a light down? (LTI) <i>Working scientifically;</i> <i>Light</i></p>	<p>A Child's War Can you send a coded message? <i>Working Scientifically</i> <i>Electricity</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> How many worms are underground? (LTI) <i>Working Scientifically</i> <i>Living things and their Habitats</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> Why is holly prickly? (LTI) <i>Working scientifically;</i> <i>Evolution & Inheritance</i></p>
----------------------	--	---	---	--	--	---