<b>—</b>	LEAS PARK JUNIOR SCHOOL – Curriculum Progression Map  Year Group: 5 Subject: Science				
Unit Curriculum Strand	Autumn Earth and Space (1)		Living things and their habitats (2) Animals including humans (3)	Summer	Properties and changes of materials (4) Forces (5)
Biology Living things and their habitats (2) Animals including humans (3)	Children can  (2) explain the life cycle of plants, mammals, amphibians, insects and birds (2) use their prior learning from Year 3 (Plants) to explain the life cycle of plants (2) explain the difference between sexual and asexual reproduction and give examples of how plants reproduce in both ways (2) present their understanding of the life cycle of a range of animals in different ways  Children know (2) the differences in the life cycles of a variety of living things (2) how plants and animals reproduce (3) how humans change as they grow				
Chemistry  Properties and changes of materials (4)	<ul> <li>Children can</li> <li>(4) compare materials according to their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal) and response to magnets.</li> <li>(4) use knowledge from prior learning in Year 3 (Forces and Magnets) and Year 4 (Electricity) to compare and group materials</li> <li>(4) investigate materials which will dissolve in liquid</li> <li>(4) use different processes to separate mixtures from materials</li> <li>(4) identify and explain irreversible chemical changes</li> </ul>				
	<ul> <li>(4) the particular uses of ever</li> <li>(4) that dissolving, mixing and</li> <li>(4) use knowledge from prior</li> </ul>	ve to form or ryday mater I changes of Iearning in Y	a solution and how to recover a substance rials, including metals, wood and plastic	poration and	d condensation are reversible changes
	Children can  • (1) position planets in relation to distance from the sun				

Physics	• (1) explain the movement of the Earth and other planets relative to the Sun in the solar system
•	• (1) use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky
	• (1) explain the movement of the moon relative to the Earth
Earth and	(1) recognise how ideas about the solar system have changed over time
Space (1)	(5) explain the effect of gravity on unsupported objects
1 ()	(5) explain how different mechanisms work
Forces (5)	
(-)	Children know
	• (1) the planets in our solar system
	(1) the Sun, Earth and Moon are approximately spherical bodies
	(1) (5) the effect of air resistance, water resistance and friction
	• (5) that some mechanisms allow a smaller force to have a greater effect
	• (5) that unsupported objects fall to earth because of gravity
	• (5) how the scientists Galileo and Isaac Newton helped to develop the theory of gravitation.
Working	• (2,4,5) take measurements, use a range of scientific equipment (1) stopwatches (2) tape measure, with increasing accuracy and precision,
Scientifically	take repeat readings when appropriate
	• (1,2) identify scientific evidence that has been used to support or refute ideas or arguments.
	• (1,2,4,5) record and collect data and results of increasing complexity using tables (1-5), bar graphs (2)
	• (4,5) plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary ((4) noticing patterns; grouping and classifying; comparative and fair tests (5) comparative and fair tests)
	<ul> <li>(4) use test results to make predictions to set up further comparative and fair tests, including through the use of bubble and block marking</li> </ul>
	<ul> <li>(1-5) report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as tables.</li> </ul>