



## Science Knowledge Progression

Nursery					
Biology	Chemistry	Physics			
Plants and animals	Everyday materials	Seasonal changes	How things work Forces		
<ul> <li>Plant seeds and care for growing plants.</li> <li>Understand the key features of the life cycle of a plant and an animal.</li> <li>Begin to understand the need to respect and care for the natural environment and all living things.</li> </ul>	<ul> <li>Use all their senses in hands- on exploration of natural materials.</li> <li>Explore collections of materials with similar and/or different properties.</li> <li>Talk about what they see, using a wide vocabulary.</li> <li>Talk about the differences between materials and changes they notice.</li> </ul>	Begin to learn about the changing seasons.	<ul> <li>Explore how things work.</li> <li>Explore and talk about different forces they can feel.</li> </ul>		





Reception					
Biology	Chemistry	Physics			
The natural world	The natural world	Seasonal changes	How things work		
			Forces		
• Describe what they see hear and feel whilst outside (ELG)	• Explore the natural world around them (ELG)	• Understand the effect of changing seasons on the natural world around them (ELG)			
<ul> <li>Recognise some plants and animals they can see outside.</li> <li>Confident to touch, smell and hear the natural world around them.</li> <li>Draw pictures of animals and plants.</li> <li>Ask questions about some of the plants and animals they have observed.</li> <li>Identify features of living things.</li> <li>Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.</li> </ul>	<ul> <li>Interact with natural processes (such as ice melting).</li> <li>Understand some important processes such as changing states of matter.</li> </ul>	Know how the weather is different in each season.	<ul> <li>Talk about why things happen and how things work.</li> <li>Interact with natural processes (such as sound causing vibration light travelling through transparent material, a object casting a shadow, a magnet attracting an object and a boat floating on water).</li> </ul>		





Year 1					
	Biology			Physics	
Animals, incluc	Animals, including humans		Everyday materials	Seasonal changes	
• Name common animals carnivores, etc	• Human body and senses	<ul><li><i>Common plants</i></li><li><i>Plant structure</i></li></ul>	<ul> <li>Properties of materials</li> <li>Grouping materials</li> </ul>	<ul><li> The four seasons</li><li> Seasonal weather</li></ul>	
<ul> <li>Identify and name a range of animals by amphibian, reptile, mammal, fish and birds.</li> <li>Identify and name animals by what they eat (carnivore,</li> </ul>	<ul> <li>Know the name of parts of the human body that can be seen.</li> <li>Say which part of the body is associated with each sense.</li> </ul>	<ul> <li>Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees.</li> <li>Know and name the petals, stem, leaves and root of a plant.</li> <li>Know and describe the</li> </ul>	<ul> <li>Know the name of the materials an object is made from, including wood, plastic, glass, metal, water, and rock.</li> <li>Know about, compare and group everyday materials based on their physical properties.</li> </ul>	<ul> <li>Name the seasons and know about the type of weather in each season.</li> <li>Know how day length varies depending on the season.</li> </ul>	

Aster Unite	n Moss Road nt Academy		Askern Uttlemoov Infant Academy
	herbivore and omnivore).	roots, trunk, branches and	
	<ul> <li>Know how to sort by living and non living things.</li> </ul>	leaves of a tree.	





Year 2				
Biology			Chemistry	
All living things and their habitats	Animals, including humans	Plants	Everyday materials	
<ul> <li>Alive or dead</li> <li>Habitats</li> <li>Adaptations</li> <li>Food chains</li> </ul>	<ul> <li>Animal reproduction</li> <li>Healthy living</li> <li>Basic needs</li> </ul>	<ul> <li>Plant and seed growth</li> <li>Plant reproduction</li> <li>Keeping plants healthy</li> </ul>	<ul> <li>Identify different materials</li> <li>Name everyday materials</li> <li>Properties of materials</li> <li>Compare the use of different materials</li> <li>Compare the use of different materials</li> <li>Compare the use of different materials</li> </ul>	
<ul> <li>Classify things by living, dead or never lived</li> <li>Know how a specific habitat provides for the basic needs of things living there</li> </ul>	<ul> <li>Know the basic stages in a life cycle for animals, (including humans).</li> <li>Know why exercise, a balanced</li> </ul>	<ul> <li>Know and explain how seeds and bulbs grow into mature plants.</li> <li>Know what plants need in order to grow</li> </ul>	<ul> <li>Identify and compare different materials including wood, metal, plastic, glass, brick, rock, paper and cardboard.</li> <li>Know how materials can be</li> <li>Know why a material might or might not be used for a specific job.</li> </ul>	





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	(plants and animals).	diet and good	and stay healthy	changed by squashing,	
•	Match living things to their habitat.	hygiene are important for humans.	(water, light & suitable temperature).	bending, twisting and stretching.	
•	Describe the basic needs of animals, including humans, for survival (water, food and air).			J	
•	Name some different sources of food for animals.				
•	Know about and explain a simple food chain.				