

Sticky/Core Knowledge

	EYFS	Year 1	Year 2	Year 3/4 Cycle A	Year 3/4 Cycle B	Year 5/6 Cycle A	Year 5/6 Cycle B
Plants	Know plants they would find in their natural environment.	Know the five parts of a plant. Know the main parts of a tree.	Know that a plant needs sunlight, water, warmth, nutrients, air and space to grow.	Know the function of roots, stem, leaves and flowers. Know that plant seeds can be dispersed by wind, animals, explosion and water.			
Animals, including humans,	Know how to keep teeth healthy.	Know the difference between carnivores, omnivores and herbivores. Know the different animal groups. Know the five human senses.	Know that all animals need food, water and air to survive. Know that humans need exercise, a healthy diet and good hygiene to be healthy. Know that all food chains have a producer and consumers.	Know that the skeleton protects organs, allows movement and supports the body. Know the names of 5 bones in the human body (Backbone, skull, jaw, knee cap, rib) Know that bones are pulled by muscles to allow movement.	Know the 4 types of teeth (canine, incisor, premolar and molar) Know how to look after our teeth (regular brushing, less sugary food) Know that the digestive system is how food is digested and water and nutrients are absorbed by the body.	Know that a life cycle shows the stages of development. Know that puberty is when a child's body develops into an adult. Know that gestation periods in mammals vary.	Know that fossils are remains of once living-things. Know that inherited characteristics are passed onto offspring. Know that animals which have adapted are more likely to survive.

Materials		<p>Know that materials are what an object is made from.</p> <p>Know the difference between natural and man-made materials.</p>	<p>Know that a property is a quality a material has and name 6. (absorbent, bendy, rough, smooth, hard, waterproof).</p> <p>Know that we can reduce, reuse and recycle to save Earth's natural resources.</p>		<p>Know the properties of solids, liquids and gases.</p> <p>Know that water exists in all three states of matter: ice, water and gas.</p> <p>Know that temperature is measured in degrees celsius in the UK.</p>	<p>Know that a mixture is two substances that can be separated through sieving, filtering or heating.</p> <p>Know the difference between a reversible and irreversible change.</p>	
Weather , Earth and Space	<p>Know three features of every season.</p> <p>Know that ice melts.</p>	<p>To know the order of the four seasons.</p> <p>To know days change lengths based on the season.</p>				<p>Know that the planets orbit the sun and the moon orbits the Earth.</p> <p>Know the names of the planets in the Milky Way.</p> <p>Know that Earth's rotation causes day and night.</p>	
Living things and their habitats			<p>Know that habitats provide food, water, air, shelter and space for animals to survive.</p>		<p>Know that classifying is arranging things into groups based on similarities.</p> <p>To know the difference between invertebrates and vertebrates.</p>		<p>Know the parts of the circulatory system (heart, lungs, veins and arteries)</p> <p>Know that blood transports nutrients, gases and waste products around the body.</p>

Light and Sound				<p>Know that light always travels in straight lines.</p> <p>To know a shadow is made by an object blocking light.</p>	<p>Know that sound travels through vibrations.</p> <p>Know pitch is how high or low a sound is.</p> <p>Know that some materials can absorb the vibrations and muffle sound.</p>		<p>Know that refraction is a change in direction of light when it passes between two transparent materials.</p> <p>Know that visible light is made up of the spectrum of colours of the rainbow.</p>
Forces and magnets				<p>Know that a force is a push or pull that makes something move.</p> <p>Know that all magnets have a North and South pole.</p> <p>Know that a material attracted to a magnet is magnetic.</p>		<p>Know 4 forces (gravity, air resistance, water resistance and friction).</p> <p>Know that gravity holds things to the surface of the Earth.</p>	
Electricity					<p>Know that a circuit must be complete to work.</p> <p>Know the names of components in a circuit (cell, wires, light, buzzer, switch, battery)</p>		<p>Know the difference between renewable and non-renewable energy.</p> <p>Know some electrical hazards (overloading, water, damaged cables).</p>

Vocabulary Progression

Tier	EYFS	Year 1	Year 2	Year 3/ 4 Cycle A	Year 3/4 Cycle B	Year 5/6 Cycle A	Year 5/6 Cycle B
1	Flower Tree Leaf Hot Cold Rain Sun Snow	Amphibians Mammals Fish Birds Reptiles Senses Season Material Man-made Stem Root Fruit	Food chain Habitat Minibeast Source Shelter Hygiene Bulb Seed Transparent Recycle Hibernation Survive	Skeleton Support Muscles Force Friction Magnetic Reflect Light source Shadows Seedling Seed dispersal Pollination	Classify Vertebrate Invertebrate Circuit Digest Predator Producer Sound wave Vibration Pitch Condensation Evaporation	Gravity Air resistance Water resistance Orbit Satellite Rotate Puberty Reproduction Gestation Mixture Substances Thermal	Circulatory Veins Arteries Component Renewable Non-renewable Refract Reflect Extinction Inheritance Evolution Adaptation
2	Spring Autumn Winter Summer	Carnivore Herbivore Omnivore Properties Trunk Stalk	Microhabitat Offspring Producer Consumer Evergreen Opaque	Joint Tendon Attract Repel Ray Pollinator	Conduct Consumer Decay Amplitude Particles Soundproof	Axis Embryo Juvenile Solute Solution Solvent	Blood vessels Chambers Oxygenated Deoxygenated Spectrum Hazzard
3	Melt Weather Season	Absorbent Surface Blossom Bud	Vegetation Deciduous Nutrients Germination	Tissue Translucent Artificial Taproot	Vascular Non-vascular Oesophagus Vacuum	Gravitational pull Buoyancy Celestial bodies Spherical body	Aorta Voltage Current Electromagnet