



Science Overview Cycle A				
	EYFS	KS1	LKS2	UKS2
Term 1	What happens during autumn? KEPs - I can describe one thing that I can see, hear and feel during Autumn. - I can say one thing that changes during Autumn. Lifecycles KEPs - I know the lifecycle of a hen. - I can talk about how a chick changes as it grows.	Animals, including humans (Body senses) KEPs - I can name and label the main parts of the human body. - I can say which part of the body is associated with each sense. - I can explain what a human needs in order to be healthy.	Forces and Magnets KEPs - I can explain how magnets work, linking to their different poles. - I can identify materials that are magnetic or non-magnetic. - I can explain different forces: pushing, pulling, attraction, repulsion and friction.	Space KEPs - I can describe the shape and movement of the Earth and other planets in relation to the sun. - I can describe the shape and movement of the moon in relation to the Earth. - I can explain how the rotation of the Earth 'appears' to make the sun move across the sky.
Term 2	What is a habitat? KEPs - I can talk about a town and the Antarctic. - I can name some animals that live in the Antarctic. What happens during winter? KEPs - I can tell you about the weather in winter. - I can give one example of how winter differs from autumn. Changing State		Sound KEPs - I can explain how sound is made by vibrations. - I can explain how volume and pitch of sound are different. - I can explain how to use materials to soundproof.	Materials and their properties KEPs - I can describe and explain how to dissolve and recover a substance from a solution. - I can describe and explain how materials can be separated, eg: sieving, filtering and evaporation. - I can explain how new materials can be created by irreversible changes eg: burning, acid, rusting

KEPs = Knowledge End Points – this is the key knowledge children should retain by the end of the unit and can be used as an assessment point. KEPs link directly to the National Curriculum, Development Matters and Early Learning Goals.



	KEPS I can explain what happens when ice melts and water freezes.			
Term 3		Everyday materials (Y1) KEPs - I can identify and name everyday materials, eg: wood, plastic, glass, metal, water & rock. - I can describe the properties of everyday materials. - I can say what material an object is made from as well as comparing and grouping them.		
Term 4	What happens during spring? KEPS I can explain a change during spring compared to a change during the Winter. Changing State KEPS I can talk about what happens when chocolate melts.	Living things and their habitats (cold habitats) KEPS - I can explain what a habitat is, including a micro-habitat. - I can explain how animals are suited to a cold habitat. - I can explain how animals obtain their food from plants and other animals.	States of Matter KEPs - I can compare and groups materials based on whether they are solid, liquid or gas. - I can measure the temperature at which materials change state. - I can explain evaporation and condensation and link this to temperature.	Electricity KEPs - I can explain how the voltage of cells in a circuit affect lamps and buzzers. - I can compare and give reasons for variations in how components function. - I can use accurate symbols when I draw a simple circuit diagram.
Term 5	What do plants need? KEPS - I can make observations of plants. - I can name one thing that a plant needs to grow.	Living things and their habitats (hot habitats) KEPS - I can explain how animals are suited to a hot habitat. - I can identify and name different sources of food.	Electricity KEPs - I can identify common appliances that use electricity. - I can create a complete circuit including battery, wires, bulb or buzzer.	Animals including Humans (Y6) KEPs - I can name the main parts of the circulatory system. - I can describe the functions of the heart, blood vessels and blood.

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	- I can talk about the lifecycle of a bean. Lifecycles KEPS - I know the lifecycle of a butterfly. - I can talk about how a caterpillar changes as it grows.	I can compare things that are living, dead and things that have never been alive.	I can explain how a switch works.	- I can explain how water and nutrients are transported around the body <i>Covered in PSHE</i> <i>I can explain the impact diet, drugs and lifestyle have on the human body.</i>
Term 6	What is a habitat? KEPS - I can compare the beach and a forest. - I can name animals that are found in different habitats. What happens during summer? KEPS - I can tell you about the weather in summer. - I can talk about changes during the four seasons.	Animals, including humans (Y2) KEPS - I can explain that animals, including humans, have offspring that grow into adults. - I can name the basic needs of animals, including humans, for survival.	Light KEPS - I can explain that light is reflected from surfaces. - I can explain that opaque objects create shadows. - I can explain why shadows change in size at different times of the day.	Living things and their habitats (Y6) KEPS - I can classify living things into broad groups that can then be subdivided. - I can classify groups according to similarities and differences. - I can create my own classification system for plants and animals.