



Science KEPs Cycle B				
	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.	Seasons – Autumn KEPs - I can name the 4 seasons. - I can describe the weather conditions in Autumn. - I can name signs of Autumn. - I can answer an investigation question about the seasons using my own observations.	Rocks and Soils KEPs - I can name examples of natural and man-made rocks. - I can describe the properties of different rocks and identify simple similarities and differences. - I can explain that fossils are things that have once lived trapped within rock and describe the main processes involved in fossilisation.	Living Things – Life cycles of mammals and plants KEPs - I can explain how plants can reproduce in different ways – sexual and asexual. - I can explain the lifecycles of amphibians, insects, birds and mammals and identify the similarities and differences.
Term 2	What is a habitat? KEPs I can talk about a town and the Antarctic.	Use of Materials (NC Y2) KEPs	Nutrition and the Skeleton KEPs I know that animals, including humans, need	Living Things – Life cycles of humans KEPs

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	- 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 KEPS - I can explain what happens when ice melts and water freezes.	- I can compare the suitability of different everyday materials. - I can describe how the shapes of solid objects from some materials can be changed by squashing, bending, twisting and stretching.	the right types and amount of nutrition, and that they cannot make their own food. I can identify that humans and some other animals have skeletons and muscles for support, protection and movement.	- I can describe the different stages in human development. - I can describe the different stages of development in animals. - I can explain the differences in stages of development between females and males.
Term 3		Seasons – Winter (1 lesson) Animals, including humans (NC Y1)	Teeth and Digestion KEPs	Living Things – Evolution and Inheritance KEPs



		KEPs - I can identify and name some common animals and say whether they are herbivores, carnivores or omnivores. - I can compare the similarities and differences between animals. - I can name and label the main parts of a human body.	- I can identify and explain the main parts of the digestive system. - I can identify the types and functions of teeth. - I can explain the importance of oral hygiene.	- I can explain why animals, humans and plants need to adapt, which can lead to them evolving. - I can explain how fossils provide information about living things from millions of years ago. - I can describe the characteristics and features humans and animals may inherit from their parents.
Term 4	What happens during spring? KEPs I can explain a change during spring compared to a change during the Winter. Changing State KEPs	Seasons – Spring (1 lesson) Animals including Humans (NC Y2) KEPs - I can describe the lifecycle of a human and a frog. - I can explain what animals and humans need in order to survive.		SATs Focus



	I can talk about what happens when chocolate melts.	I can explain what a human needs in order to be healthy.		
Term 5	What do plants need? KEPs - I can make observations of plants. - I can name one thing that a plant needs to grow. - 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.	Plants KEPs - I can explain the difference between deciduous and ever-green trees. - I can name the plant structure using the words seed, leaves, flowers, petals, roots and stem. - I know that plants need water, light and a suitable temperature to grow healthily.	Plants KEPs - I can name and explain the functions of roots, stem/trunk, flowers and leaves in a plant - I can explain how water is transported within plants. - I can explain the process of pollination and seed dispersal.	Light KEPs - I know that light travels in straight lines. - I can explain how objects give out or reflect light which in turn enables us to see things. - I can explain why shadows have the same shape as the objects that cast them.
Term 6	What is a habitat? KEPs	Seasons – Summer KEPs	Living Things and their Habitats	Forces

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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.



	- 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.	- I can say what I have observed about temperature across the seasons using simple equipment. - I can describe the weather in the different seasons. - I can describe how the day length changes in the different seasons. <i>NB These KEPs encompass the knowledge the children will have learnt about seasons across the year.</i>	KEPs - I can use a classification system to group living things (plants & animals). - I know the role of different plants and animals within food chains. - I can recognise and explain the human impact on habitats and environments.	KEPs - I know that there are different types of forces: gravity, air-resistance, friction and water resistance. - I know that forces can be changed through the use of levers, pulleys and gears.
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