



EYFS – Nursery and Reception							
Seasons - Autumn	Seasons - Changes in weather & environments		Seasons – Spring Animals and their babies	Observing mini- beasts and other animals and species	Summer		
	Nursery						
Explore Autumn season using all their senses Notice some simple signs of autumn	Recognise and talk about the changes in seasons between Autumn and Winter. Explore different types of weathers	Participate in simple experiments to investigate what happens when ice melts. Talk about the changes that happen when something melts or freezes Find out about, and name, some of the animals that live in the Arctic	Recognise and talk about the changes in seasons between winter and spring. Recognise how spring is called new life and how baby animals are born. Match animals to their babies	Understand the differences between large animals & minbeasts Know about the lifecycle of a butterfly Care for simple minibeasts in our Bug Hotel Know the name of some of the parts of a butterfly Compare the difference between spring and summer.	Begin to show an interest in exploring why things happen, e.g floating and sinking, using sand and water from the beach		





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	Reception						
Explore Autumn season using all their senses Talk about signs of autumn Explore natural Autumn materials with different properties (hard/soft)	Talk about and explore the changes between seasons, using key vocabulary. Investigate how the different types of weathers can be linked to the different seasons and environments	Participate in simple experiments to investigate what happens when ice melts - talk about and record why something melts or freezes and the change that happen Make observations of the animals that live in the Arctic & talk about what makes them special	Talk about and explore the changes between seasons, using key vocabulary. Recognise how spring is called new life and how baby animals are born. Match animals to their babies, identifying key features and similarities. Identify animas from different parts of the world. Examine simple life cycles	Can talk about the life cycle of a frog using appropriate vocabulary Talk about how we can care for animals and mini-beasts where we live Know the names of parts of a frog Talk about the seasons change and how this impacts on when things grow Compare the difference between autumn, winter, spring and summer Explore the natural world around them, making observations and drawing pictures of animals and Minibeasts Care for simple minibeasts in our Bug Hotel	Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter		





Cycle B – Key Stage 1 – Years 1 and 2						
Animals Including Humans	Habitats	Plants	Seasonal Change	Super Science		
To identify, name, draw and label the basic parts of the human body To say which part of the body is associated with each sense To perform simple tests based on the senses To be able to identify and name a variety of common UK mammals To be able to identify and compare a variety of common UK birds and reptiles To identify and name a variety of common animals that are carnivores, herbivores and omnivores	To explore and compare the difference between things that are living, dead, & things that have never been alive To understand that living things need to live in suitable habitats To be able to explore and describe a microhabitat. To explore simple food chains in a habitat To notice that animals, including humans, have offspring which grow into adults	To identify and name a variety of common wild and garden plants, including deciduous and evergreen trees To identify and describe the basic structure of a variety of common flowering plants, including trees To know that flowering plants produce seeds which grow into new plants To describe what they observe as new plants grow	To observe changes across the four seasons To observe and describe weather associated with the seasons and how day length varies	Following child led enquiries including: To ask simple questions and recognise that they can be answered in different ways To observe closely, using simple equipment To perform simple tests To identify and classify To use their observations & ideas to suggest answers to questions To gather and record data to help in answering questions		





Cycle B – Lower Key Stage 2 – Years 3 and 4						
Ourselves and Other Animals	Light	States of Matter	Sound	Habitats	Super Science	
To identify that humans get the nutrition they need from what they eat To identify that a balanced diet is needed in order to stay healthy To investigate which foods different animals eat To explore human and animal skeletons To find out about how the skeleton supports and protects the body and to investigate how invertebrates are supported To find out what muscles are and how skeletal muscles help us to move	To recognise that we need light in order to see & that darkness is the absence of light To explore the Sun as a light source and recognise that there are ways to protect our eyes To recognise that shadows are formed when light from a light source is blocked by a solid object To investigate how shadows behave To investigate how the size of shadows change throughout the day To explore how light is reflected from surfaces	To identify and explore the properties of solids, liquids and gases To observe that materials change state when they are heated or cooled To research the temperature in degrees Celsius (°C) at which materials change state To understand the process of evaporation and condensation To identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature	To find out that sounds are made when objects and materials vibrate To investigate whether sounds can travel through different materials To find out that some materials are effective in preventing vibrations from sound sources reaching the ear To investigate how sounds can be different pitches and volumes To explore the relationship between distance & volume - Recognising that sounds gets fainter as the distance from the sound source increases	To be able to identify a variety of habitats and explore why organisms live in different habitats To be able to use a classification key to identify animals To be able to group organisms according to their characteristics To be able to classify animals into specific groups according to their characteristics To be able to identify and classify a variety of British plants To explore the human impact on habitats and environments, both positive and negative	Following child led enquiries including: To ask relevant questions and use different types of scientific enquiry to answer them To set up simple practical enquiries To record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and labels To report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions To use straightforward scientific evidence to answer questions or to support their findings	





Cycle B – Upper Key Stage 2 - Years 5 and 6						
Living Things – Classification	Light	Changes of Materials	Living Things & Their Habitats	Evolution & Inheritance	Super Science	
To classify animals & plants based on specific characteristics, giving reasons for choices To classify animals into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals	To recognise that light appears to travel in straight lines To use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye To explain that we see things because light travels from light sources to our eyes or from light sources to our eyes or from light sources to objects and then to our eyes To use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them To investigate shadows using knowledge of transparent, translucent and opaque materials	To explain the difference between melting and dissolving and identify materials which will dissolve in water To investigate the rate of dissolving To identify different ways materials can be mixed together and know when to use which processes to separate mixtures To describe how to recover a substance from a solution by separating different mixtures To carry out a variety of investigations involving reversible and irreversible changes	To describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird To describe the life process of reproduction in some plants & animals	To recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago To recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents To identify how animals and plants are adapted to suit their environment in different ways and that adaption may lead to evolution	Following child led enquiries including: Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate Recording data and results of increasing complexity using scientific diagrams and label, classification keys, tables, scatter graphs, bar and line graphs Using test results to make predictions to set up further comparative and fair tests Reporting or presenting findings from enquiries inc conclusions, casual relationships & explanations of degree of trust in results, in oral and written forms such as display and presentations Identifying scientific evidence that has been used to support or refute ideas or arguments	