Science learning Objectives: Year 2

ALL LIVING THINGS AND THEIR HABITATS	
I can explore and compare the differences between things that are living, dead, and things that have never been alive	
I can identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other	
I can identify and name a variety of plants and animals in their habitats, including micro-habitats	
I can describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.	
PLANTS	
I can observe and describe how seeds and bulbs grow into mature plants	
I can find out and describe how plants need water, light and a suitable temperature to grow and stay healthy	
I can describe the different stages of germination	
I can identify which seeds will grow into which types of plants	
MATERIALS	
I can identify objects made of particular material	
I can explain if a material is a good choice for an object	
I can test different fabrics to decide which is the best to use for dungarees and explain why	
ANIMALS INCLUDING HUMANS	
To recognise the needs of a human baby for survival	
To know and understand how babies change and grow	
To classify and describe changes that happen as people grow older	
HEALTHY LIVING	
I can describe the importance for humans of exercise	
I know about different types of food and eating the right amounts	
I know about hygiene and can describe different ways to stay hygienic	

SCIENTIFIC SKILLS		AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 2	SUMMER 2
Observation & Conclusion Year 1 and 2	**Make observations** Talk simply about what they see **Answer simple questions** about what they see **Describe** simple features with simple vocabulary–parts of the body, a tree • **Observe** closely using simple equipment to help them – e.g. magnifying glass						
YEAR 2	**Answer questions** using evidence Ask questions about what they see **Make relevant observations** **Give simple reasons** and explanations for what they have seen **Identify** simple parts of what they see – e.g. petal, leg						
Enquiry, Prediction, Testing Year 1 and 2	**Perform** simple tests using simple equipment – e.g. a timer **Talk** about some reasons why things might happen, or why something has happened **Understand** basic safety rules when testing out their ideas						
YEAR 2	**Find things out**, with help and suggestions						

	Begin to make predictions about what might happen **Understand key factors** that make a fair test **Use simple apparatus** effectively and safely						
Data Collection Year 1 and 2	**Recognise** that scientific ideas are more than guesses, and based on evidence **Collect data** when asked – e.g. a weather station **Count data sets** – trees in a field **Sort data** within given criteria – tall trees, wet days, blue eyes **Remember and recall** information **Underline** important facts						
YEAR 2	**Gather and record data** to help in answering questions and understand why this is important **Use tallies** to count in surveys **Use books** to find information						
Recording Year 1 and 2	Record what they have seen or done in different ways, including drawing and labelled diagrams **Record** some information onto a pre prepared chart **Label** objects according to simple criteria						

	Record things they have seen or done from memory						
YEAR 2	**Begin to use cause and effect** in their explanations, and some scientific vocabulary **Use simple tables and charts** Identify, classify and use bulleted lists **Make sketches** of their observations **Use line graphs** to present their findings						