

Skills and Knowledge Progression

Science: Year 2



Standard	Working at the expected standard (emerging, developing, secure)				Working at greater depth within the expected standard
Working Scientifically	Asking simple questions and recognising that they can be answered in different ways.				Pupils can use and apply scientific knowledge and skills after discussion with the teacher with increasing independence : <ol style="list-style-type: none"> 1. Collect data relevant to the answering of questions. 2. Answer enquiry questions using data and ideas. 3. With assistance, draw and label diagrams. 4. Conduct simple tests. 5. Ask simple questions that can be tested. 6. Suggest different ways of answering question.
	Observing closely, using simple equipment.				
	Performing simple tests.				
	Identifying and classifying.				
	Using their observations and ideas to suggest answers to questions.				
	Gathering and recording data to help in answering questions.				
Plants	1. Observe and describe how seeds and bulbs grow into mature plants.				1. Compare and contrast the growth patterns of different types of plants.
	2. Investigate and describe how plants need water, light and a suitable temperature to grow and stay healthy.				
	.				
Living Things and Their Habitats	1. Explore and compare the differences between things that are living, dead, and things that have never been alive.				1. Suggest, within a simple food chain, what might happen if one of the living things becomes scarce. 2. Identify the effects of a shortage of each of the things that plants need to grow and stay healthy 3. Explain why there may be a limit as to how many of a certain living thing can live in a particular area.
	2. 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.				
	3. Identify and name a variety of plants and animals in their habitats, including micro-habitats.				
	4. 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.				
Everyday Materials	1. Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.				1. Identify that some changes to shapes are permanent and others are temporary, and that this can influence their uses. 2. For particular materials in particular uses, identify limitations as well as suitability.
	2. Investigate how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.				
Animals, Including Humans	1. Know that animals, including humans, have offspring which grow into adults.				1. Suggest effects of poor diet and hygiene. 2. Compare and contrast adults and their offspring for different animals.
	2. Record and describe the basic needs of animals, including humans, for survival (water, food and air).				

	3. Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.				3. Suggest how the basic needs of different animals influences their choice of habitat.
--	--	--	--	--	---