

Singleton Church of England Primary School Progression of knowledge Science - Y2 (Cycle B)



	Year 2 – Unit 1	Year 2 – Unit 2	Year 2 – Unit 3
	Our Local Environment	Healthy Me	Young Gardeners
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SUBSTANTIVE	Plants	Plants	Plants
CONCEPTS	Living Things and Their Habitats	Living Things and Their Habitats	Living Things and Their Habitats
Substantive concepts are concepts that	Animals Including Humans	Animals Including Humans	Animals Including Humans
children will come	Evolution and Inheritance	Evolution and Inheritance	Evolution and Inheritance
across repeatedly	Seasonal Changes	Seasonal Changes	Seasonal Changes
throughout their education in Science	Materials	Materials	Materials
	Rocks	Rocks	Rocks
	Light	Light	Light
	Forces	Forces	Forces
	Sound	Sound	Sound
	Electricity	Electricity	Electricity
	Earth and Space	Earth and Space	Earth and Space
KEY	living, dead, never been alive, suited, suitable, basic needs, food, food	survive, survival, water, food, air, exercise, heartbeat, breathing, hygiene,	light, shade, Sun, warm, cool, water, space, grow, healthy, bulb, germinate,
VOCABULARY	chain, shelter, move, feed, water, air, survive, survival, names of local	germs, disease, food types (e.g. meat, fish, vegetables, bread, rice, pasta,	shoot, seedling
VOCADOLARI	habitats names of micro-habitats, conditions, light, dark, shady, sunny, wet,	dairy)	Shoot, seeding
		dally)	
	damp, dry, hot, cold, names of living things in the habitats and micro- habitats studied		
CLIDCTANTIVE			Manus and an identify and assess a variety of plants and ariusals in
SUBSTANTIVE KNOWLEDGE	Knows and can compare the differences between things that are living, doed, and things that have power been alive.	Knows about the basic needs of animals, including humans, for survival	Knows and can identify and name a variety of plants and animals in
Substantive knowledge	dead, and things that have never been alive.	(water, food and air).	their habitats, including microhabitats
refers to the residual	Knows that most living things live in habitats to which they are suited	Knows the importance for humans of exercise, eating the right	Knows how to observe and describe how seeds and bulbs grow into
knowledge that children	and describe how different habitats provide for the basic needs of	amounts of different types of food, and hygiene.	mature plants
should take away from the unit after it has been	different kinds of animals and plants, and how they depend on each		Knows how plants need water, light and a suitable temperature to
taught. It consists of the	other.		grow and stay healthy
core facts in terms of Scientific knowledge. In	Knows a variety of plants and animals in their habitats, including		
this progression map,	microhabitats.		
you will find a concise	Knows how animals obtain their food from plants and other animals,		
summary of the	using the idea of a simple food chain, and identify and name different		
for each unit.	sources of food.		
MAKING	Year 1	Year 1	Year 1
CONNECTIONS	Knows a variety of common wild and garden plants, including	Knows a variety of common animals including fish, amphibians,	Knows and can describe the basic structure of a variety of common
Key knowledge	deciduous and evergreen trees.	reptiles, birds and mammals.	flowering plants, including trees.
	Knows the basic structure of a variety of common flowering plants,	Knows a variety of common animals that are carnivores, herbivores and	
	including trees.	omnivores.	including deciduous and evergreen trees.
	Knows a variety of common animals including fish, amphibians,	Knows how to describe and compare the structure of a variety of	
	reptiles, birds and mammals.	common animals (fish, amphibians, reptiles, birds and mammals,	Year 3
	Knows a variety of common animals that are carnivores, herbivores and		Knows and can identify and describe the functions of different parts of
	omnivores.	Knows how to - Identify, name, draw and label the basic parts of the	flowering plants: roots, stem/trunk, leaves and flowers.
	Describe and compare the structure of a variety of common animals	human body and say which part of the body is associated with each	 Knows the requirements of plants for life and growth (air, light, water,
	(fish, amphibians, reptiles, birds and mammals, including pets).	sense.	nutrients from soil, and room to grow) and how they vary from plant to
	 Observe changes across the four seasons. 		plant.
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	 Year 3 Knows the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. 	 Year 3 Knows that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat. Knows that humans and some other animals have skeletons and muscles for support, protection and movement. 	Knows the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.
Working Scientifically	Observe micro-habitats and mini-beasts		Observe and describe how seeds and bulbs grow into mature plants