



Knowing more. Remembering more. Applying more! Science—Understanding the World

	Autumn	Autumn
Year	Nursery All about me, People who help , Light and dark, Christmas	Reception All about me, People who help , Light and dark, Christmas
Knowledge I know....	I know that I have a body and that it has different parts I know that there is a daytime and a night time and that different things happen at these times I know that heating things can change what they look like	I know that inside my body there is a skeleton which makes me move I know that there are seasonal changes I know that shadows are made when light is blocked I know that the daytime is light, night time is dark and that the time this happens changes over the year. I know that cooking causes change
Skills I can...	I can name some parts of my body and sing songs about them I can name my fingers I can talk about the things I do in the day I can talk about the things I do at night I can begin to use some words to describe what happens when something cooks	I can name some of my bones, their location and talk about how they move I can name the seasons I can use light and objects to make shadows I can talk about what heat does when cooking
Vocabulary	Head, tummy, leg, arm, finger, foot, toe, shoulder, knee, elbow Finger names-tommy thumb, ruby ring, middle man, peter pointer, baby small Gloopy, lumpy, hard, soft, pour, hot	Skull and other bone names e.g. ribs, clavicle, hip Skeleton Elbow, knee, ankle Spring, summer, autumn, winter, clocks back, clocks forward Light, dark, shadow, block, reflect Melt, boil, pour, bake
What is this the foundation for?	Looking at skeletons and how parts of the body move Looking at melting, change of state and how change of state can be prevented/slowed down. Fingers-linked to handwriting and all fine motor work	Seasonal changes and weather Body parts and senses States and matter-solid, liquid



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	Spring	Spring
Year	Nursery Hot and Cold, Winter and Ice. Penguins and Keeping Warm. Lunar New Year, Shrove Tuesday, Mothers Day, Easter	Reception Hot and Cold, Winter and Ice. Penguins and Keeping Warm. Lunar New Year, Shrove Tuesday, Mothers Day, Easter
Knowledge I know....	I know that water can be frozen to make ice I know that ice will melt when it is not kept cold I know that making things cold causes a change I know that I can push and pull objects to move them	I know that freezing and heating are opposite ways of effecting change on water I know that there are some ways to slow down the change I know that in spring, new life starts to appear I know that chicks also have life cycles
Skills I can...	I can talk about ice and snow and how they melt I can push an object to move it away from me I can pull an object to move it towards me.	I can talk about how a change can be slowed down e.g. by wrapping up a warm object or by putting a frozen object in a cold place I can identify some signs of growth I can talk about the life cycle of a chick
Vocabulary	Ice, snow, melt, change, warm, hot, freezing Push, pull, roll, move, towards, away	Freeze, boil, hot, cold, change, slow down, speed up Shoots, buds, flowers Egg, chick, hen, lay, hatch
What is this the foundation for?	Looking at freezing and melting, change of state and how change of state can be prevented/slowed down. Forces work (y3)	Carrying out experiments and talking about ideas Classifying animals & their life cycles Describe the growth of seeds, bulbs



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	Summer 1	Summer 2
Year	Nursery Animals-Wildlife, Farm and Safari. Food. Keeping Healthy and Growing Up.	Reception Animals-Wildlife, Farm and Safari. Food. Keeping Healthy and Growing Up.
Knowledge I know....	I know that there are different types of living things I know that living things grow I know that living things develop over time I know that plants need care to grow	I know that plants need care to grow I know that some plants have edible parts which can be harvested I know that animals and humans need certain things to survive I know that different kinds of animals need different things
Skills I can...	I can name some types of living things-plants and different kinds of animals I can talk about the life cycle of a caterpillar I can talk about planting seeds I can care for a plant by watering it and making sure it has some light	I can talk about plants and what they need to grow I can talk about edible plants and how you can pick these I can talk about animals and what they need to survive (link with trip)
Vocabulary	Animal, plant, living, creature, caterpillar, egg, chrysalis (cocoon in some books) butterfly Plant, soil, water, light Grow, change, develop, time related vocabulary	Animal, plant, living, creature, animal, human, mammal Plant, soil, water, light, fruit, vegetable, harvest, pick, fruit, vegetable Grow, change, develop, time related vocabulary Light, water, food, shelter
What is this the foundation for?	Chick life cycle work, change of seasons, classification of living things	Classification of living things British animals, carnivores, herbivores and omnivores. Naming plants