Plants

	Reception	Year 1	Year 2
Knowledge		NC Ref: Pupils should: Pupils should be taught to: • identify and name a variety of common wild and garden plants, including deciduous and evergreen trees • identify and describe the basic structure of a variety of common flowering plants, including trees.	NC Ref: Pupils should: Pupils should be taught to: Observe and describe how seeds and bulbs grow into mature plants Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.
Skills	Make observations of plants. Explain why some things occur and talk about changes	 Label and describe the basic plant structure Name a variety of common plants including trees. Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. 	 Identify and name a variety of plants and animals in a range of habitats and microhabitats. Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.
Key Vocabulary	Plant, Seed, Grow, Flower, Leaf	Deciduous, Evergreen, Plant , Leaf/leaves Flowers, Blossom, Petals, Fruit, Roots Bulb, Seed, Trunk, Branches, Stem Trees, Stalk, Soil, Berry , Food	rockpools ks1

Animals

	Reception	Year 1	Year 2
Knowledge		NC Ref: Animals Including Humans Pupils should be taught to: • identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals • identify and name a variety of common animals that are carnivores, herbivores and omnivores • describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	NC Ref: Animals Including Humans Pupils should be taught to: • notice that animals, including humans, have offspring which grow into adults find out about and describe the basic needs of animals, including humans, for survival (water, food and air) • describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.
Skills	Make observations of animals. Explain why some things occur and talk about changes.	 Label and describe the basic structures of a variety of common animals, including fish, amphibians, reptiles, birds and mammals. Group and sort a variety of common animals based on the foods they eat. Draw and label the main parts of the human body and say which body part is associated with which sense. Describe, following observation, how plants and animals change over time. 	 Describe the basic life cycles of some familiar animals (egg, caterpillar, pupa, butterfly; egg, chick, chicken; spawn, tadpole, froglet, frog). Describe how animals obtain their food from plants and other animals using the idea of a simple food chain.

	Alive, Animal, Food, Unwell, Smell	Common animals, Fish, Amphibians	Exercise, Nutrition, Health, Survival
ary	Touch, Hear, Taste, See, Senses	Reptiles, Birds, Mammals, Head, Neck	Water, Food, Air, Offspring, Adult, Baby
<u> </u>		Arms, Elbows, Legs, Knee, Face, Ears	Balance, diet, Carbohydrates, Dairy
<u>6</u>		Eyes, Hair, Mouth, Teeth, Herbivore,	Fruits and vegetables, protein, Sleep,
) O		Omnivore	Hygiene
2		Carnivore, Wings, Beak, Feather, wild	Elderly, Toddler, Adult, Young, Toddler,
k ey		Baby, Nest, Family, Egg, Wing, Claw, Tail	Child, Teenager, Heart rate, Balanced diet
		Beak, Fur, Feather, Fin, Scales	•

Living Things and Their Habitats

	Reception	Year 1	Year 2
Knowledge			Living Things and Their Habitats Pupils should be taught to: • explore and compare the differences between things that are living, dead, and things that have never been alive • 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 identify and name a variety of plants and animals in their habitats, including microhabitats • 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.
Skills			 Identify and name different sources of food Describe how living things depend on each other as a source of food. Explain how animals, including humans, need water, food, air and shelter to survive. Identify that most living things live in habitats to which they are suited. Explore and compare the differences between things that are living, dead and things that have never been alive.

	Living, Dead, Never lived, Energy
	Food chain, Predator, Prey, Woodland
<u> </u>	Pond, Desert, Micro habitat, Survival
Key cabular	Reproduce, Environment, Surroundings
<u> </u>	Life cycle, Food chain, Food source
>	Variety, Produce, Reproduce,
	Adapt/Adapted

Materials

	Reception	Year 1	Year 2
Knowledge		NC Ref: Everyday Materials Pupils should be taught to: • distinguish between an object and the material from which it is made identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock • describe the simple physical properties of a variety of everyday materials • compare and group together a variety of everyday materials on the basis of their simple physical properties.	NC Ref: <u>Use of Everyday Materials</u> Pupils should be taught to: • identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses • find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.
Skills	Know about similarities and differences in relation to materials and objects.	 Compare and group materials in a variety of ways, such as based on their physical properties; being natural or man-made and being recyclable or non-recyclable. Identify and name what an object is made from, including wood, plastic, glass, metal, water and rock. Investigate and describe the simple physical properties of some everyday materials, such as hard or soft; stretchy or stiff; rough or smooth; opaque or transparent; bendy or rigid; waterproof or not waterproof and magnetic or non-magnetic. 	 Compare the suitability of a range of everyday materials for particular uses, including wood, metal, plastic, glass, brick, rock, paper and cardboard Describe how some objects and materials can be changed and how these changes can be desirable or undesirable. These ideas are explored through testing materials to see if they are appropriate for particular jobs.

Yocabulary Hard, Rough Touch, Shiny, Hard, Rough	Property, Hard, Soft, Stretchy, Stiff, Shiny Dull, Rough, Smooth, Bendy, Waterproof Absorbent, Opaque, Transparent, Wood Plastic, Glass, Paper, Water, Metal, Rock	Purpose, Stretchy, stiff, Dull, Absorbent Opaque, Transparent, Brick, Fabrics Squashing, Bending, Twisting, Stretching Elastic
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Seasonal Changes

	Reception	Year 1	Year 2
Knowledge		 NC Ref: Pupils should be taught to: observe changes across the four seasons. observe and describe weather associated with the seasons and how day length varies. 	
Skills	 Talk about the features of their own immediate environment and how environments might vary from one another. Talk about changes. 	 Compare shadows made by different objects and materials. Observe changes across the four seasons. Observe and describe different types of weather associated with the seasons. Investigate weather using toys, models or simple equipment. 	
Key Vocabulary	Weather Seasons	Sun, Weather, Season, Spring Summer, Autumn, Winter, Day, Night, Length, Shadows, Cold, Hot, Snow, Rain, Wind, Hot, Warm	

Working Scientifically

Reception	Year 1	Year 2

Knowledge	 Making predictions Testing their ideas. Developing ideas of grouping, sequences, cause and effect. Planning, making decisions about how to approach a task, solve a problem and reach a goal. Checking how well their activities are going. Changing strategy as needed. Reviewing how well the approach worked. Science, Experiment, Fair, Find out, Explain	 recognising that they can be answered in different ways. 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. Question, Answer, Test, Compare, Observe	recognising that they can be answered in different ways. 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. Question, Answer, Test, Compare, Observe
Vocabulary	Reason, Why, Change	Group, Measure, Record, Results, Equipment Identify, Classify, Data	Group, Measure, Record, Results, Equipment Identify, Classify, Data, Gather, Collect, Notice