



**Bathampton Primary School**  
*Together on a learning adventure*

**Key Stage One Science**

During years 1 and 2, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:

- asking simple questions and 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.

	<b>Pupils should be taught to...</b>	<b>Year One</b>
<b>Plants</b>	identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	<u>Throughout the year</u> Local walks to observe and identify plants and trees in the local area (school grounds, Dry Arch, canal bank...) Possible trip to Folly Farm <u>Going Places T1/Frozen Lands T2</u> Identify trees which are evergreen and deciduous. Read story of The Selfish giant and discuss the changes the trees go through.
	identify and describe the basic structure of a variety of common flowering plants, including trees.	<u>Going Places T1/Food Glorious Food T5 including Forest Schools sessions</u> Observe and label plant and tree parts (stem, leaves, roots, flowers (blossom), petal, fruit, trunk, bark, branch, twig, stick, blossom, bud, shoot, seed, bulb) Identify and name common flowers and trees Complete tree and bark rubbings Plant and observe flowers and vegetables growing



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Animals including Humans	<p>identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals</p>	<p><u>Throughout the year</u>            Use local environment to explore and answer questions about animals in their habitats. Care for the animals found and return them to their habitat.  <u>Frozen Lands T2</u>            Name and label animals which live in the frozen lands and start thinking about how they are adapted to their environment.  <u>Animal Tales T4</u>            Identify, name and sort animals (fish, amphibians, reptiles, birds and mammals, including those kept as pets). Name body parts of animals  <u>A Bucketful of Dinosaurs T5</u>            Name dinosaurs and compare to animals alive today.</p>
	<p>identify and name a variety of common animals that are carnivores, herbivores and omnivores</p>	<p><u>Animal Tales T4</u>            Identify and sort animals which are carnivore, herbivore and omnivore. Describe and understand these terms.  <u>A Bucketful of Dinosaurs T6</u>            Identify dinosaurs which are carnivore, herbivore and omnivore. Look at the different type of teeth these dinosaurs have and why.</p>
	<p>describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)</p>	<p><u>Frozen Places T2</u>            Describe the animals which live in the Arctic and Antarctic. Sort animals in different ways. Name and label features (beak, claws, fur, feathers, blubber, wings)  <u>Animal Tales T4</u>            Name and label animal groups and features. Sort groups of animals according to their structure/features  <u>A Bucketful of Dinosaurs T5</u>            Compare dinosaurs to animals alive today.</p>
	<p>identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.</p>	<p><u>Animal Tales T4</u>            Name and label animal body parts. Play PE games and sing songs to identify body parts.  <u>Food Glorious Food T5</u>            Name and label human body parts. Describe the use of senses. Test our own senses.</p>



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Everyday Materials	distinguish between an object and the material from which it is made	<u>Frozen Lands T2</u> Name and describe water and ice <u>No Place Like Home T4</u> Name and label the materials used to build a house. Name and label materials used to make objects in the home, distinguish the object name from the material.
	identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock	<u>Frozen Lands T2</u> Name and describe water and ice <u>No Place Like Home T4</u> Name and label the materials used to build a house. Name and label materials used to make objects in the home.
	describe the simple physical properties of a variety of everyday materials	<u>Frozen Lands T2</u> Name and describe water and ice. Investigate which material would keep a polar bear the warmest. <u>No Place Like Home T4</u> Name and describe the properties of the materials used to build a house. Name and describe the properties of materials of objects in the home.
	compare and group together a variety of everyday materials on the basis of their simple physical properties.	<u>No Place Like Home T4</u> Describe a range of everyday materials. Sort and group them in different ways.
Seasonal Changes	observe changes across the four seasons	<u>Throughout the year</u> Keep a daily weather chart on given weeks. Record temperatures on different days. Recognise changes and differences across the seasons. Observe changes in the environment over different seasons. Read <i>The Selfish Giant</i> story
	observe and describe weather associated with the seasons and how day length varies.	<u>Throughout the year</u> Keep a daily weather chart on given weeks. Record temperatures on different days. Recognise changes and differences across the seasons.



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		<p><u>Frozen Places T2</u> Recognise how day length varies according to the season. Use a globe and a torch to show how day length can vary in different parts of the world.</p>
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	<b>Pupils should be taught to...</b>	<b>Year 2</b>
Plants	observe and describe how seeds and bulbs grow into mature plants	<u>Our School T6</u> Life cycle of a flowering plant. Observe and identify different plants found locally on a nature walk. Discover how seeds travel and why bees are important to plants.
	find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.	<u>Our School T6</u> Plan and carry out a seed investigation. Grow seeds and keep a diary/record of what happens. Find out what plants need to grow and stay healthy.



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<b>Animals</b>	notice that animals, including humans, have offspring which grow into adults	<p><u>Exploring Oceans and Seas T5</u>            Research different animals and their young found in Seas and Oceans.</p> <p><u>Our School T6</u>            Find out about the Life Cycle of a Butterfly through research and observations. Make their own Life Cycle of a Butterfly and write an explanation of what happens.</p>
	find out about and describe the basic needs of animals, including humans, for survival (water, food and air)	<p><u>Super Heroes! T1</u>            Discuss; what do all animals need to stay alive?</p>
	describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.	<p><u>Super Heroes! T1</u>            Discuss what things our bodies need to grow. Measure different part of their bodies. What have they found out? What can we do now that we couldn't do when we were babies?</p> <p>What food keeps us healthy? Sort different types of food. Plan a balance meal.</p> <p>Discuss different types of exercise children enjoy. Carry out different exercises in one minute. Children record observations. What do you notice about your body when you exercise, why do we need to exercise?</p> <p>Visit from the school nurse, lesson on medicine safety.</p> <p>Carry out a 'washing hands' investigation as a class.</p>



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Use of everyday materials	<p>identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses</p>	<p><u>Capturing Castle T4</u>            Discuss a range of materials and their properties. What are the materials used for? Why are their properties important?            Sort materials into different categories and explain why.            Investigate the different materials and fabrics a knight would have to wear and why. What materials do we have now that they didn't have in Medieval times?  <u>Looking at Light T2</u>            Shadow Puppet investigation. Which material would be most suitable for making a shadow puppet?</p>
	<p>find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.</p>	<p><u>Capturing Castles! T4</u>            Investigate what different materials can do by exerting different forces on them.</p>
Living things and their habitats	<p>explore and compare the differences between things that are living, dead, and things that have never been alive</p>	<p><u>Our School T6</u>            Explore and compare the difference between living and non - living things. Sort items into different categories. Discuss decisions and characteristics of different items.</p>
	<p>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</p>	<p><u>Our School T6</u>            Explore local area; go on a habitat hunt around the school grounds. Why do different animals suit different habitats? What do they need around them?</p>



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		Forest school – making habitats.
	identify and name a variety of plants and animals in their habitats, including micro-habitats	<u>Our School T6</u> Forest school – pond dipping, mini beast search, habitats in the local area. Carry out a Mini Beast Investigation
	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.	<u>Our School T6</u> Create and talk about simple food chains.