

The Science Curriculum at Bernards Heath Infant and Nursery School

Subject: Science Year 1 Learners		
Skills	Knowledge	Context – What this looks like in the classroom:
<p>The main focus of Science teaching through Key Stage 1 is to enable pupils to experience and observe first-hand the natural and humanly constructed world around them. They should be encouraged to ask questions about what they notice.</p> <ul style="list-style-type: none"> • Explore • Predict • Test and observe • Explain <p><i>These words are displayed in each classroom, with a corresponding picture. They have been agreed by the school staff and are regularly used in learning objectives for lessons.</i></p> <p>Children are expected to demonstrate the meaning of these skills both verbally and through written recordings as appropriate.</p>	<p><u>Everyday Materials</u></p> <ul style="list-style-type: none"> • Identify and name a variety of materials including wood, metal, plastic, glass and rock and describe their simple properties. E.g wood is hard and smooth. • Compare and group a variety of everyday materials discussing similarities and differences. • Distinguish between an object and the material from which it is made. <p><u>Plants</u></p> <ul style="list-style-type: none"> • 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. <p><u>Animals including humans</u></p> <ul style="list-style-type: none"> • Identify, name and sort a variety of common animals including fish, amphibians, reptiles, birds and mammals. • Identify, name and sort 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 and draw basic parts of the 	<ul style="list-style-type: none"> • Our science lessons are practical and ensure children are highly motivated and engaged by working scientifically. • We place a high priority on utilising our outside space. Children are able to explore the Wild Garden and field which provides excellent opportunities to observe in a natural environment. • Children are encouraged to record in different way e.g drawings, tables, tallies, numbers, and written explanations. • When encouraging children to identify and sort we may use hoops, venn diagrams and verbal explanations. • Teacher and teaching assistants will take photographs and write observations of children’s predictions and explanations. • Hands-on investigations encompass the knowledge and skills of the KS1 science curriculum. • One example investigation is ‘Where will the ice cube melt the quickest, and why?’ Children are encouraged to make observations, predictions and explain their thinking before designing an investigation to find out the answer.

	<p>human body- say which part is associated with each sense.</p> <p><u>Seasonal changes</u></p> <ul style="list-style-type: none">• Observe changes across the four seasons.• Observe and describe the weather associated with the seasons and how day length varies.	
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The Science Curriculum at Bernards Heath Infant and Nursery School

Subject: Science Year 2 Learners		
Skills	Knowledge	Context – What this looks like in the classroom:
<p>The main focus of Science teaching through Key Stage 1 is to enable pupils to experience and observe first-hand the natural and humanly constructed world around them. They should be encouraged to ask questions about what they notice.</p> <ul style="list-style-type: none"> • Explore • Question • Predict • Test and observe • Results • Explain <p><i>These words are displayed in each classroom, with a corresponding picture. They have been agreed by the school staff and are regularly used in learning objectives for lessons.</i></p> <p>Children are expected to demonstrate the meaning of these skills both verbally and through written recordings as appropriate.</p>	<p><u>Living things and their habitats</u></p> <ul style="list-style-type: none"> • 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. Explore the idea of a simple food chain and identify and name different sources of food. <p><u>Uses of everyday materials</u></p> <ul style="list-style-type: none"> • Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, brick, glass, 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. 	<ul style="list-style-type: none"> • Our science lessons are practical and ensure children are highly motivated and engaged by working scientifically. • We place a high priority on utilising our outside space. Children are able to explore the Wild Garden and field which provides excellent opportunities to observe in a natural environment. • Children are encouraged to record in different way e.g drawings, tables, tallies, numbers, and written explanations. • When encouraging children to identify and sort we may use hoops, venn diagrams and verbal explanations. • Teacher and teaching assistants will take photographs and write observations of children’s predictions and explanations. • Hands-on investigations encompass the knowledge and skills of the KS1 science curriculum. • One example investigation is ‘Which material is most suitable for Santa’s sack and why?’ Children are encouraged to make observations, predictions and explain their thinking before designing an investigation to find out the answer.

Animals including humans

- Animals, including humans, have offspring that grow into adults.
- Find out about and describe the basic needs of animals, including humans, for survival (water, food, air).
- Describe the importance, for humans, of exercise, hygiene and eating the right amounts of different types of food.

Plants

- Observe and describe how seeds and bulbs grow into mature plants.
- Describe how plants need water, light and a suitable temperature to grow and stay healthy.