

Our Curriculum Aims

- To be brilliant learners who are curious, creative, resilient and enjoy learning
- To be brilliant at gaining knowledge and developing skills confidently that will stick with us for life

Our Science Curriculum Rationale

- Brilliant scientists will
- Develop their scientific knowledge to help them greater understand the world
 - Understand that science has changed, and will change, our world
 - Are excited and curious about the world
 - Can predict what might happen in an investigation
 - Can make observations about what is happening in an investigation
 - Can explain what has happened in an investigation

Our Science Curriculum Intent

Reception	Year One	Year Two
Brilliant scientists in Reception have first-hand experiences to observe, handle and care for animals, including pets. They are curious and excited to observe the growth of animals in and out of their natural habitats. They are curious and can talk about their immediate environment and some of the plants found within it; how they are similar and different and can change over time They begin to learn about their own bodies through play and songs. They begin to find about keeping healthy and use their senses to examine the world around them. They use their senses to explore the world around and begin to understand that there are different materials with different uses.	Brilliant scientists in Year One learn about the wide variety of animal life and observe these animals through first-hand experiences and exploring secondary sources. They learn about the key animal groups and the features of these animals. They learn that animals may be carnivores, herbivores or omnivores. They are curious and excited to explore their local environment to identify a variety of plants and explore their structures. They will work scientifically by observing and recording the growth of a variety of plants. They learn about the main parts of the human body and know which parts of the body are associated with each sense. They use their senses to explore the world around them. They understand that objects are made from different materials and they can describe the properties of these materials. They carry out tests to investigate the properties of materials.	Brilliant scientists in Year Two are curious and excited to explore and investigate animals and habitats in their local environment. They know what animals need to survive and how they are suited to their habitats. They learn what a food chain is. They understand how to plan and carry out a simple investigation, making predictions and observations and can explain what has happened. They are curious and excited to explore and investigate plants in their local environment. They understand how to plan and carry out a fair test, making predictions and observations and can explain what has happened. They know what plants need to grow and survive. They are curious about how animals and humans grow and what they need to stay healthy and learn that humans and other animals have offspring which grow into adults and that they need water, food and air to survive and that a balanced diet is important to remain healthy. They learn about the importance of good hygiene and investigate the best way to wash their hands to remove germs and also learn about the importance of exercise and investigate the effects exercise has on the body, suggesting reasons why. They are curious about what the world around them is made of. They are aware that all everyday objects are the result of scientific discovery and invention. They understand that materials have different properties and this makes them suitable for different purposes. They answer scientific questions by carrying out scientific investigations to find out the suitability of different materials for a particular purpose.

Meet Some Brilliant Scientists

 John Dunlop	 Charles Macintosh	 David Bellamy	 Jane Colden	 Katalin Karikó
 Dian Fossey	 Charles Darwin	 Gerald Durrell	 Steve Backshall	 John Harvey Kellogg