



Spiritual, Moral, Social and Cultural Development through Science

Science at Cranford Park is full of 'awe and wonder' and encourages the spiritual, moral, social and cultural development of our children. Science learning throughout the school requires children to build on their scientific skills through practical experiments, providing them with opportunities for first hand experiences, both within the classroom and in our substantial outdoor environment.

Spiritual Development

Science provides a wealth of opportunities for children to develop spiritually. They explore, through the Science curriculum, the wonders of nature, of themselves and of the world around them. Their learning evokes curiosity about the workings of the world, of life itself and of how and why things are the way they are. They add their scientific knowledge to their consideration of 'The Ultimate Questions', considering links between religious and scientific ideas about the world and life itself. Through Science, children learn to consider and respect different ideas and come to their own conclusions.

Moral Development

Through learning about their environment, we encourage our children to question our impact on their planet, both individually and globally. Exploring everyday materials allows children to learn about alternative uses for materials, considering sustainability and thinking about which materials we can recycle. Our children are expected to respect the school environment and take responsibility for keeping it tidy, recycling food and materials and not wasting water or energy. Children are also encouraged to consider their responsibility for keeping themselves healthy and the impact that various choices, including diet, exercise, drugs and lifestyle, might have on this. They learn how the body functions and discuss the implications of lifestyle choices on health.

Social Development

Working together in pairs or groups and supporting others is a key part of Science lessons. Children are supported to listen to different opinions, participate cooperatively and make their own choices. This helps them to develop the ability to take an active role within a group, making suggestions about ways to investigate or research a topic. Throughout any discussions, children are encouraged to explore and respect the values and beliefs of different people.

Cultural Development

Our children are encouraged, as they learn about science, to consider the uses and impact that scientific discovery has had on our lives, from the everyday objects we use, to energy sources. We consider how scientific knowledge and techniques have changed our lives, from medicine to sustainable resources. Children are helped to understand the importance of creativity and risk taking when moving thinking forward and look at scientific development from around the world. Some year groups learn about significant people to Science, often linked to their work in History and Geography.

Children are also given opportunities to understand diversity. They are taught to find and discuss similarities and differences within plants and animals, including humans. Later, they learn about inheritance of characteristics from parents to offspring and how this provides differences between and within communities.