

## SCIENCE



### **Intent:**

Science teaching at The Nightingale Centre aims to give all children a strong understanding of the world around them whilst acquiring specific skills and knowledge to help them to think scientifically, to gain an understanding of scientific processes and also an understanding of the uses and implications of Science, today and for the future. As the children's knowledge and understanding increases, and they become more proficient in selecting, using some scientific equipment, collating and interpreting results, they become increasingly confident in their growing ability to come to conclusions based on real evidence. This model allows children to build upon their prior knowledge and increases their enthusiasm for the topics whilst embedding this procedural knowledge into the long-term memory.

### **Implementation:**

We aim to create a positive attitude to science learning within our classroom and reinforce an expectation that all children are all capable of achieving. Our approach to the teaching and learning of science involves the following;

Science will be taught in planned and arranged topic blocks by the class teacher, to have a project-based approach. This is a strategy to enable the achievement of a greater depth of knowledge.

Through our planning, we involve problem solving opportunities that allow children to find out for themselves. Children are encouraged to ask their own questions and be given opportunities to use their scientific skills and research to discover the answers.

Working Scientifically skills are encouraged in lessons to ensure these skills are being developed throughout the children's school career and new vocabulary and challenging concepts are introduced through direct teaching. This is developed through the years, in-keeping with the topics.

We find opportunities to develop children's understanding of their surroundings by accessing outdoor learning.

Children are offered a range of extra-curricular activities, visits, trips to complement and broaden the curriculum. These are purposeful and link with the knowledge being taught in class.

### **Impact:**

The approach to teaching at our centre encourages a fun, engaging, quality science education, that provides children with the foundations and knowledge for understanding the world. Our engagement with the local environment ensures that children learn through varied and first hand experiences of the world around them. Learning about science in the world outside the classroom is embedded throughout the science curriculum. Through various experiences, children have the understanding that science has changed our lives and that it is vital to the world's future prosperity. Children learn the possibilities for careers in science and how science is an essential element of daily life. If children begin accessing the curriculum, they are deemed to be making good progress and have the opportunity to gain a qualification in science. In addition, we measure the impact of our curriculum through the use of Assessment for Learning tools such as Doodle in order to measure their knowledge and understanding through their educational journey.