



INTENT - IMPLEMENTATION - IMPACT

SCIENCE

INTENT

At Semley School, we aim to instil our children with a sense of awe and **wonder** for the world around them. We believe in facilitating hands on experiences of science, whether this is through experiments, nature walks or trips within the STEM community. Progress in science stems from asking questions, so we believe it is crucial for children to develop the ability to pose questions about the world around them, as well as responding to the questions of others. The aim at Semley is that children remember the lessons they have learnt in science and embrace the scientific opportunities they are presented with. There should be no limit to their ambitions encouraging all that they could grow up to be - biologists, forensic scientists, engineers and the many other careers on offer that stem from a strong love of science.

IMPLEMENTATION

At Semley, our science progression ensures that all areas of the National Curriculum are covered as the children move through school; this is further supported by our robust assessment process. Science at Semley is taught via hands on experiences, encouraging independence and an ability to question the world around them. We are all scientists at Semley, and so we have a real focus on scientific vocabulary and encourage this by using the Tower Hamlets sentence starters. We reinforce this use of scientific vocabulary during our weekly 'Bright Ideas Time' sessions, where children are encouraged to discuss their observations and insights into the world around them. We base all of the children's practical experiences on the 5 types of enquiry: observing changes over time, pattern seeking, identifying and classifying, comparative testing and research. Every year we take part in the national Science Week. We begin this week with a whole school assembly run by an external organisation, who then run workshops for every class throughout the day. Our focus during science week is to foster a love and enthusiasm for science and to expose the children to the awe and wonder of the world around them. We believe that it can only take one lesson or experience to spark a passion for science and to inspire children to pursue this further in their academic career.

IMPACT

Children at Semley enjoy, actively engage in, and are enthusiastic about their learning. By the end of Year 6, all children at Semley are confident in posing scientific questions and making observations. Our children will have developed the range of working scientifically skills necessary to support their transition into Key Stage 3 and will be entering secondary school with a passion for exploring the world around them. Our children will have a rich bank of scientific vocabulary to draw upon and will be able to use this confidently and accurately. By the end of Year 6, our children will have been exposed to a wide range of STEM experiences, both inside and outside of the classroom and will be aware of some of the potential wide- ranging career opportunities available.