



“A high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world’s future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.”

DfE 2015

### Intent

Science at Emerson Valley School encourages children to make the links about the world around them. Explore new concepts and be amazed and inspired by highly confident, competent and knowledgeable educators. Children’s thinking is broadened by open-ended questions, opportunities to talk about their learning and engaging in practical activities. Pupil’s knowledge, skills, understanding and vocabulary will develop and progress throughout their time at Emerson Valley School.

### Implementation

- Science is delivered through a topic-based curriculum.
- A set of lessons both informative and practical which carefully plans for progression and depth.
- Use a range of methods to communicate their scientific information and present it in a variety of ways including photos, diagrams, writing, graphs, charts, ICT.
- All children receive a knowledge organiser which outlines knowledge (including vocabulary) that they need to master.
- All classrooms have a set of Science questions and the Emerson Valley Principles of Science on display.
- All year groups have up to date Science displays.
- Develop a respect for the materials and equipment they handle with regard to their own and other children’s safety.
- Children at EVS take part in a school Science Week every year.
- There are several Science concept weeks which children take part in throughout the year.
- Trips and visits are organised to enhance the learning experience where possible.
- Develop an enthusiasm and enjoyment for Scientific learning and discovery.

### Impact

Our Science Curriculum is high quality, well thought out and is planned to demonstrate progression of scientific skills and knowledge. This approach results in a fun, engaging, inspiring science education that provides children with the foundations for understanding the world. Through lessons, various workshops, trips, and interactions with experts’ children have the understanding that science has changed our lives and that it is vital to the world’s future prosperity. We measure the impact of our Science curriculum partly using pupil voice, children share their curiosity, enjoyment, and views of the subject by answering questions this is then used to further develop the Science curriculum.