Intent

Science at Elmore Green Primary School is a subject that stimulates and excites pupils' curiosity about the world around them. We want our children to be scientists !

Scientific investigation develops understanding through practical activity and encourages critical and creative thought. Our children are exposed to different ways of investigating and get the chance to develop their skills as they progress through each phase in school.

The intent of Elmore Green's Science curriculum is to ensure that all children are taught age appropriate science subject knowledge as laid out by the National Curriculum. It is our intent to encourage children to be inquisitive about the world, nurturing their innate curiosity and enabling them to develop a range of scientific skills that are useful across the whole curriculum.

Our pupils are taught that there are many cross curricular links within science learning, ranging from the use of maths to create graphs and interpret data, to learning about materials or creatures from different climates and countries. Within science lessons our children often work in groups, so they are constantly developing their co-operation and communication skills, which is key to working effectively as part of a team.

Our curriculum aims to ensure that all children:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics;
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them;
- are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future;
- develop an enthusiasm for science that will lay the foundations for future study at Key Stage

Implementation

At Elmore Green Primary School, we make the learning of science interactive and engaging through the use of scientific resources and activities in order to make learning memorable.

Due to the nature of our mixed age structure, from Year 1 onwards, our Science curriculum is taught on a two-year cycle which has been carefully planned to ensure a

progression in learning that takes into account pupils building upon their knowledge, skills and understanding. This is also the case for the 'working scientifically' objectives where these skills are taught, practised and built on throughout each phase of your child's primary education. Hamilton Trust Plans are used as the basis for our teaching and assessment in Science. Plans are adapted to meet the needs of each learner and where required, plans may change enable teachers capitalise on any opportunities to develop scientific knowledge and understanding.

Each phase (Reception, KS1 Lower KS2 (Y3 and 4) and Upper KS2 (Y5 and 6). Phase has a weekly science lesson where the children discuss, investigate and evaluate all specified areas of science across each school year. Science is a subject that ultimately is taught discreetly, although links to the wider curriculum, such as the class themes are made as appropriate.

Our children:

- explore, question, predict, plan, carry out investigations and observations as well as conclude their findings.
- present their findings and learning using science specific language, observations and diagrams.
- have regular opportunities to review the learning taken place in previous topics as well as previous lessons.

Impact

The impact of this curriculum design will lead to our children being able to do more and remember more.

Our children will therefore be expected to leave Elmore Green Primary School reaching at least age-related expectations for Science. Our Science curriculum will lead pupils to be enthusiastic scientific learners and understand that science has changed our lives.

It is our goal to empower our children so they understand they have the capability to change the world. This is evidenced in a range of ways, including pupil voice, their work and their overwhelming passion for scientific learning.