**Science**

**Intent:**

At Sutton Manor Primary School, we understand that Science has changed our lives and is vital to the world’s future prosperity. It is for this reason that we aim to instil in our pupils a strong understanding of their heritage and the world around them. Through the delivery of an ambitious curriculum, our children are encouraged to understand how Science can be used to explain what is occurring, predict how things will behave, and analyse causes.

Science at our school focuses upon the children acquiring specific skills and knowledge to help them to think scientifically, to gain an understanding of scientific processes and appreciate the uses and implications of Science, today and for the future.

At Sutton Manor Primary School, scientific enquiry skills are embedded in each topic our children study and these topics are revisited and developed throughout their time at school. Topics, such as Plants, are taught in Key Stage One and studied again in further detail in Key Stage Two. This model allows children to build upon their prior knowledge and increases their enthusiasm for the topics whilst embedding this procedural knowledge into their long-term memory.

All children are exposed to high quality teaching and learning experiences, which encourage children to explore the outdoors and their locality, thus developing their scientific enquiry and investigative skills. They are encouraged to develop and use a range of skills including observations, planning and investigations, as well as being confident to question the world around them and become independent learners in exploring possible answers for their scientific based questions particularly in our local community.

Specialist vocabulary for topics is taught and effective questioning to communicate ideas is demonstrated by teachers and Teaching Assistants. Concepts taught are reinforced by focusing on the key features of scientific enquiry, so that pupils learn to use a variety of approaches to answer relevant scientific questions.

**Implementation:**

In ensuring high standards of teaching and learning in science, we implement a curriculum that is progressive throughout the whole school. Recognising Science as a core subject, here at Sutton Manor Primary school, we aim to ensure that:

* Science is delivered every week in both key stages and sessions may be discrete sessions, or they may be linked to a topic or annual Science Week
* Teachers have a good knowledge of Science and present the subject matter clearly
* Teachers also aim to develop the children’s national curiosity and encourage awe and wonder
* Lessons are planned to help pupils remember the content which they have previously been taught
* Though sequenced lessons, teachers assess pupil understanding and promptly address misconceptions as/if they arise as per the feedback policy
* Science themed staff meetings are held at least twice a year to discuss best practice, offer CPD training to all staff and provide teachers with the opportunity to work collaboratively to ensure content coverage and progression of skills
* Trips and visits from experts to enhance the learning experiences of our pupils

**Impact:**

The impact and measure of this is to ensure children not only acquire the appropriate age-related knowledge linked to the Science curriculum, but also skills which equip them to progress from their starting points, and within their everyday lives.

Through the delivery of high-quality Science lessons, all children will have:

* A wider variety of skills linked to both scientific knowledge and understanding, and scientific enquiry/investigative skills
* A richer vocabulary which will enable to articulate their understanding of taught concepts
* High aspirations, which will see them through to further study, enable them to be next stage ready and embrace the world of work