



# ST PIUS X RCVA PRIMARY SCHOOL

## **Science Intent:**

Science teaching at St Pius X RCVA Primary School 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. At St Pius X RCVA Primary School, scientific enquiry skills are embedded in each topic the children study and these topics are revisited and developed throughout their time at school. We use the Durham Local Authority Curriculum Map which ensures that, over a 2 year period within the mixed age classes, the National Curriculum for Science is covered. Topics, such as Plants, are taught in Key Stage One and studied again in further detail throughout 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 the long-term memory.

All children are encouraged to develop and use a range of skills including observations, planning and investigations, as well as being encouraged to question the world around them and become independent learners in exploring possible answers for their scientific based questions. Specialist vocabulary for topics is taught and built up, and effective questioning to communicate ideas is encouraged. Concepts taught should be 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:**

Teachers use the DCC planning maps over a 2 year rolling programme. As part of this planning process, teachers need to plan the following:

- \* A cycle of lessons for each subject, which carefully plans for progression and depth;
- \* Opportunities to extend their learning into other areas of the curriculum and extend at home.

- \* Compilation of a big book or pupil book to record and recall key facts and information
- \* Challenge questions for pupils to apply their learning
- \* Relevant trips, visits , outdoor learning and use of ICT and outdoors to enhance the learning experience;

**Impact:**

Our Science Curriculum is high quality, well thought out and is planned to demonstrate progression. If children are keeping up with the curriculum, they are deemed to be making good or better progress. In addition, we measure the impact of our curriculum through the following methods:

- \* A reflection on standards achieved against the planned outcomes ( highlighted on a cover sheet at the start of the pupil books for Key Stage 2 or recorder in floor books in Classes 1 and 2)
- \* Tracking of knowledge in pre and post learning via pupil books, discussion, pupil I Can trackers
- \* Pupil discussions about their learning;