At St Mary & All Saints our aim is to develop the whole child so they are able to reach their full potential and flourish in life. We achieve this through living out our three core values of ***kindness***, ***readiness*** and ***curiosity***. Our aim is to weave these three themes through everything we do including the design of our curriculum.

Science Curriculum Overview

Intent

At St Mary and All Saints CE Primary School, we give our children all the skills they need to be critical thinkers, understand the process of scientific enquiry and have the scientific knowledge to understand the implications of science now and in the future. We develop children's ability to question and challenge the world around them and deepen their curiosity in science, as well as equipping them with the relevant skills to be ready to investigate their own questions.

Careful links are made between the learning that children make in Maths, English and other subjects to their learning in science where ever they are appropriate.

Implementation

Our whole curriculum is shaped by our school vision which enable all children, regardless of background, ability and additional needs, to become the very best version of themselves they can possibly be. We teach the National Curriculum, supported by a clear skills and knowledge progression. This ensures that skills and knowledge are built on year by year and sequenced appropriately to maximise learning for all children. There will be an emphasis in all science lessons on practical exploration and discovery. Teachers will create exciting and interesting opportunities for children to have hands-on experiences that are relevant to real life science, which may include trips and visitors, when possible.

Specific science units are taught in each year group, building on from previously taught units and skill coverage. Teachers may to change the order areas are taught to make cross curricular links as long as all areas are covered over the year.

Each year we will hold a science challenge week. During this week, children will experience a variety of science activities in order to broaden their breadth and depth of the subject. This may include visits from scientists and other experts in the field of science. This is a good opportunity for deeper learning with the 'working scientifically' section of the curriculum and these opportunities may spark greater awe and wonder in the subject.

Impact

We intend for our children to be able to think independently as well as to ask and answer questions about the scientific world around them. Our children will be able to identify anomalies in investigations and discuss misconceptions of their own and their peers in order to resolve them.

From their experience of investigative work at school within familiar scientific topic areas, we want our learners to be able to translate their scientific skills and knowledge to other, new and less familiar topics by being able to make connections and predict new concepts based upon the ones they are already familiar with.

Our science curriculum will encourage children to become life-long learners who are enthused, curious and inquisitive and confident to ask ‘Big Questions’ in science and who are well prepared for their future in the ever-changing scientific world.