

St John the Baptist Primary School

RESPECT, RESILIENCE, READINESS

Science Curriculum Intent Statement

Intent

Science is important in so many ways. In our rapidly evolving world, science is a vital part of our curriculum intention. It stimulates and excites pupils' curiosity about phenomena and events in the world around them, and feeds this curiosity with knowledge and skills. Scientific explanations and enquiry are part of everyday life at many levels, both in and out of school. Our job, at St. John the Baptist Primary, is to communicate the excitement of science so that our pupils can engage with awe and wonder of this hands-on subject, taking into account the chemical industry of the local area.

Implementation

We aim to teach and develop the following skills in order for our pupils to become successful scientists:

- to be inquisitive and ask 'I wonder...' questions
- to be able to investigate to try to find answers to questions
- to be able to observe carefully
- to be able to measure accurately
- to be able to use science equipment
- to be able to explain what you have found out

In EYFS, pupils know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur, and talk about changes.

In KS1, pupils will ask simple questions and recognise that they can be answered in different ways. They will perform simple tests, observe closely using simple equipment, gather and record data to help answer questions, identify and classify objects, and use their observations and ideas to suggest answers to questions.

In LKS2, pupils will ask relevant questions, set up simple practical enquiries, comparative and fair tests, make systematic and careful observations (taking accurate measurements, using standard units and a range of equipment). They will gather, record, classify and present data in a variety of ways to help answer questions, and record their findings using simple scientific language, drawings, diagrams, etc. Pupils will also use straightforward scientific evidence to support their findings, and use results to draw simple conclusions and make predictions.

In UKS2, pupils will plan scientific enquiries to answer questions; taking measurements with increasing accuracy and precision. They will record data and results of increasing complexity and use test results to make predictions to set up further comparative and fair tests. Pupils will also report and present their findings, including conclusions, causal relationships and explanations.

Impact

When our children leave St John's they will go with the **READINESS**, knowledge, skills and enthusiasm to learn even more. Through science, we promote pupils' **RESILIENCE** as they learn that the role of a scientist involves testing and investigating, which do not always go as planned and therefore retesting may be needed and **RESPECT** for scientific discoveries and figures.