

Behaviours:

Enquiry

Enjoyment

Enthusiasm

NPSW Science Menu

We encourage children to be inquisitive throughout their time at the school and beyond. The Science curriculum fosters a healthy curiosity in children about our universe and promotes respect for the living and non-living. We believe science encompasses the acquisition of knowledge, concepts, skills and positive attitudes. It is the endless pursuit of betterment and knowledge.

"What we know is a drop, what we don't know is an Ocean." Sir Isaac Newton.

The aim and intent of our curriculum:

• To develop scientific knowledge and conceptual understanding through the specific disciplines of Biology, Chemistry and Physics

Learning Strategies

- To develop understanding of the nature, processes and methods of Science through different types of enquiries that help children to answer scientific questions about the world around them
- To equip children with the scientific knowledge they require to understand the uses and implications of Science, today and for the future

Skills:

- Communicating ideas
- Questioning and predicting
- Planning and conducting investigations
- Processing and analysing data and information
- Evaluating



Practical **Experiences**

Exploration and discovery

Scientific Vocabulary

Enquiry and Predicting, fascination concluding about the world reasoning

and



Exploration and discovery

Broad and balanced Science curriculum

Using National Curriculum objectives

Understanding of the disciplines of Biology, Chemistry and Physics

Embedding scientific concept through knowledge reviews

Raise questions and make predictions related to scientifc enquiry

Practical Experiences

Links with the Science Department at Oxfod University

> Practical hands on investigations

> > Trips and Vistis

Science wrokshops delivered at school and externally

Links with the STEM team and Science Faculty at the University of Wolverhampton

Sciece Week

Talks with industy professionals

Learning Strategies

Exploring and thinking scientifically through questioning

Planning types of enquiry Observing and measuring

Conducting investigations to test ideas

Recoding, presenting and communicating information and findings

Analysing and concluding through reasoning

Evaluating and refining

Working cooperatively, collaboratively and independently

Cross Curricular Links

Scientific Vocabulary

Using scientific equipment and tools

Using sceinctific vocabulary to predict, observe, conclude and evaluate

> Observing and recording information and data

Expressing reasoned opinions

Asking and answering questions about the effects of scientific concepts

Discussing and debating the affects of science

Cross curricular links to embed scientific vacabulary

Predicting concluding and reasoning

Making reasoned predictions Understanding the importance of gathering evidence

Observing and recording information

Using recognised symbols and terminology to predict, record and conclude

Measuring, recording, analysing and presenting data

Making reasoned suggestions about their own scientific beliefs and opinions