The Orchard Vision: *Inspiring Success*

Values: *Determination, Courage, Respect*

The Orchard Science Policy

2020

The coverage and content of all Science at the Orchard School is in line with the 2014 National Curriculum for KS1. In the Early Years, the children's experiences of Science come through the 'Knowledge and Understanding of the World' element of the Foundation Stage Curriculum.

Introduction.

We teach Science in order to encourage and enable students to develop inquiring minds and curiosity about science and the natural world around them. Science can provide children with opportunities to develop and practice many different skills and attributes, including communication skills, collaborative skills, team working and perseverance, as well as analytical, reasoning and problem-solving skills.

Aims.

At The Orchard, we aim to encourage and direct children's natural curiosity whilst familiarising them with basic scientific vocabulary, helping them begin to make sense of the world around them and gaining some understanding of how things work.

During both discreet Science lessons, cross curricular lessons and ongoing links, pupils engage with a range of skill, knowledge and experiences to ensure progress is made.

We ensure progression through our planning so that our children grow as scientific thinkers and learners, building on their knowledge and understanding and encouraging this application of skills.

The Science curriculum is accessible to all children and enables all children to develop their skill and understanding at their pace including SEND and disadvantaged pupils.

Implementation.

- Children are encouraged to be curious and ask questions about what they notice in the world around them.

- Children will learn different types of scientific enquiry to answer their own questions, including observing changes over a period of time, noticing patterns, grouping and classifying things, carrying out simple comparative tests, and finding things out using secondary sources of information.

- Children will begin to use simple scientific language to talk about what they have found out and communicate their ideas to a range of audiences in a variety of ways.

- Children will read and spell scientific vocabulary at a level consistent with their increasing word-reading and spelling knowledge at key stage 1.

- Most of the learning will be done through the use of first-hand practical experiences, but there will also some use of appropriate secondary sources, such as books, photographs and videos.

- Books and stories will be used to enhance the children's learning environment and to support their development in both science and in language development.

ICT

ICT is used to support the children's learning where appropriate. The use of whiteboards and laptops in each classroom enable teachers to access a wide range of resources both visual and interactive that will enhance the children's learning. Children will also use ICT to record their own work e.g. taking photographs of their experiments.

Continuity and progression

We ensure progression through clear, detailed planning so that our children grow as scientific thinkers and learners, building on their knowledge and understanding and encouraging this application of skills.

A detailed scheme of work ensures correct progression through each topic for each year group, as set out in the National Curriculum.

In the Early Years the children's experiences of Science come through the 'Knowledge and Understanding of the World' element of the Foundation Stage Curriculum.