

St Ives Infant & Nursey School - Science Statement

Intent

Science plays a crucial role in our understanding of the world around us. Our science teaching helps us to prepare children for life, through experiences and exploration of the world in which they live. Children discover, explain and develop skills of enquiry through working scientifically.

Intent

At St Ives Infant School, we aim that all pupils:

- have the opportunity to achieve their full potential in their knowledge, skills and understanding, through their scientific experiences
- develop the ability to work independently and co-operatively in scientific activities
- be curious about things they observe and experience, through sensory exploration of the world around them
- use their experiences to develop their understanding of key scientific ideas and make links between different phenomena
- develop the skills of predicting, asking questions, making inferences, concluding and evaluating, based on evidence
- develop a respect for living things and the environment, and for their own health and safety
- Cover the key aspects of the science national curriculum in engaging, immersive topics.
- Receive high quality science lessons, taught by confident teachers.
- Access a range of scientific equipment and understand how it is used

Implementation

Our Setting Sail curriculum is developed from the National Curriculum 2014 programmes of study for Key Stage 1 and the EYFS Framework in the Foundation Stage and tailored to fit to our children, school and locality.

Children in the Foundation Stage work towards achieving the Early Learning Goals in 'communication and language, personal social and emotional development and 'understanding the world'. Teachers plan specific topics and build upon and develop children's own interests and curiosity about the world they live in.

In Years 1 and 2, teachers plan lessons that are based around the units outlined in the National Curriculum for Key Stage 1. These have been developed into half termly units. Opportunities for working scientifically are identified and planned for.

In the Foundation Stage, science (which is embedded in the learning area 'understanding the world') is delivered through a range of child-initiated and adult initiated activities in the indoor and outdoor learning environment. It is taught alongside other areas of learning. Science in Key Stage 1 is taught through weekly and blocked science lessons, which may relate to a theme or topic. A range of teaching strategies and methods are used. We also deliver science through cross curricular lessons.

Children will be assessed termly to ensure gaps are being filled. Progression and coverage is monitored closely to ensure continuation from EYFS to Year Two. Curriculum leaders work alongside teachers from each year group to ensure the quality of teaching throughout the school. Resources are checked to ensure they are suitable, appropriate and useful. • Our monitoring system, which includes planning scrutiny, book looks, subject coverage checks, lesson observations and pupil conferencing will enable the curriculum leaders to check coverage and progression.

Impact

Teacher assessments are carried out as part of every classroom activity and it is a continuous process, supported through the school's marking policy and assessment policy. These assessments inform planning and close gaps in learning.

Evidence is gathered to map progress against Early Learning Outcomes for pupils in Foundation Stage. Foundation Stage results are recorded on O Track termly.

In Key Stage 1, teachers continuously assess pupils against statements (evidenced through pupil work) on O Track and record an assessment for science attainment, each term.

Progress in science is reported to parents in an end of year report.

Children at St Ives Infant School will:

- demonstrate enjoyment in science work and an interest in further study and work in this field
- retain knowledge that is pertinent to Science with a real life context.
- be able to question ideas and reflect on knowledge.
- be able to articulate their understanding of scientific concepts and be able to reason scientifically using rich language linked to science.
- demonstrate a high level of understanding of mathematical skills through their work, organising, recording and interpreting results.
- work collaboratively and practically to investigate and experiment.
- achieve age related expectations in Science at the end of their cohort year.