



The Quercus Federation

Science Policy

Hurst Green Church of England Primary School and Nursery

This policy was adopted on September 2021

This policy is due for review on September 2022

Signed (Chair of Governors)

Signed (Head of School)

Date:



Hurst Green Church of England Primary School & Nursery

Distinctive Christian Values



Living, Loving and Learning with God.



Introduction

At Hurst Green CE Primary School and Nursery we are committed to valuing and nurturing each child as an individual who will achieve their best and develop an enthusiasm for lifelong learning. Our vision is for the children in our school to grow into responsible, caring and fulfilled adults who actively and positively contribute to the society in which they live. We are committed to raising standards, values and self-esteem for all those involved with our school through cultivating a secure, yet exciting environment that is positive, supportive, stimulating and enriching.

As a Church of England Primary School we see our Science lessons as an important part of school life. Our Science policy fulfils the statutory requirements common to all schools according to the 1988 Education Reform Act (and consolidated in the 1996 Education Act).

Intent

At Hurst Green CE Primary School and Nursery we recognise and value the importance of science and scientific enquiry. Science at Hurst Green CE Primary School and Nursery aims to develop a fun, practical and engaging high-quality curriculum that inspires the next generation to succeed and excel in science. We do this through fully adhering to the aims of the national curriculum and fostering a healthy curiosity and interest in the sciences.

At the heart of our science curriculum is scientific investigation. Wherever possible we intend to deliver lessons where children learn through varied systematic investigations, leading to them being equipped for life to ask and answer scientific questions about the world around them. We believe science encompasses the acquisition of knowledge, concepts, skills and positive attitudes. Throughout the programmes of study, the children will acquire and develop the key knowledge that has been identified within each unit and across each year group, as well as the application of scientific skills.

We ensure that the Working Scientifically skills are built-on and developed throughout children's time at the school so that they can apply their knowledge of science when using equipment, conducting experiments and investigation, building arguments and explaining concepts confidently, being familiar with scientific terminology and, most importantly, to continue to ask questions and be curious about their surroundings.

Implementation

At Hurst Green CE Primary School and Nursery, Science topics are taught within each year group in accordance with the National Curriculum.

- Topics are blocked to allow children to focus on developing their knowledge and skills, studying each topic in depth.
- Every year group will build upon the learning from prior year groups therefore developing depth of understanding and progression of skills.
- Teachers promote enjoyment and foster interest of the scientific disciplines; Biology, Chemistry and Physics.



- Children explore, question, predict, plan, carry out investigations and observations as well as conclude their findings.
- Children present their findings and learning using science specific language, observations and diagrams.
- In order to support children in their ability to 'know more and remember more' there are regular opportunities to review the learning taken place in previous topics as well as previous lessons.
- At the start of each topic children will review previous learning and will have the opportunity to share what they already know about a current topic.
- Effective use of education visits and visitors are planned, to enrich and enhance the pupil's learning experiences within the Science curriculum.
- Teachers use highly effective assessment for learning in each lesson to ensure misconceptions are highlighted and addressed.
- Effective modelling by teachers ensures that children are able to achieve their learning intention, with misconceptions addressed within it.
- Through using a range of assessment tools, differentiation is facilitated by teachers, to ensure that each pupil can access the Science curriculum.
- Pupils are regularly given the opportunity for self or peer assessment, which will then be used to inform planning, preparation, differentiation and address misconceptions within that lesson, or for the next lesson.
- Cross-curricular links are planned for, with other subjects such as Maths, English and Computing.

Impact

The successful approach to the teaching of science at Hurst Green CE Primary School and Nursery results in a fun, engaging, high quality science education, that provides children with the foundations for understanding the world that they can take with them once they complete their primary education.

Much of science lends itself to outdoor learning, and so we provide children with opportunities to experience this.

Pupil voice is used to further develop the Science curriculum, through questioning of pupils' views and attitudes towards Science, to assess the children's enjoyment of science, and to motivate learners.