First Federation Trust

SUBJECT ON A PAGE

Science

'Science at Hawkchurch builds curiosity, awe and wonder through a knowledge and skills based curriculum'

At **Hawkchurch**, we aim to foster a **curious and exploratory mindset** in our young scientists. Through engaging hands-on activities, we encourage them to **question, investigate, and discover** the wonders of the natural world. Our goal is to ignite a lifelong passion for science, nurturing critical thinking and a deep appreciation for the marvels of the universe. We use the outdoors to explore nature and the natural phenomenon.

Hawkchurch CHURCH OF ENGLAND PRIMARY SCHOOL

Intent

Deliver a curriculum which is exciting and progressive.

Build a curriculum based on children working as scientists to explore, be curious and find things out about the

Provide robust ongoing assessment and retrieval to ensure the curriculum is tailored to the pupils needs so they can do more and know moew.

We promote the love of reading and vocabulary through high quality texts and explicit teaching of scientific vocabulary.

Provide opportunities for children to build science capital through trips, visitors, virtual realsity and visits to the local area.

We promote equality and diversity and challenge stereotypes.

Implementation

Sequence

The curriculum is based on a rolling programme to fit the mixed age classes in the school. Each unit builds on children's prior knowledge, then is sequenced into smaller chunks to aid retention of learning. Each unit has key performance indicators to ensure children are learning the relevant information. Working Scientifically is the focus of all lessons to ensure children are building on these skills to apply their disciplinary

Working Scientifically and Scientific Enquiry

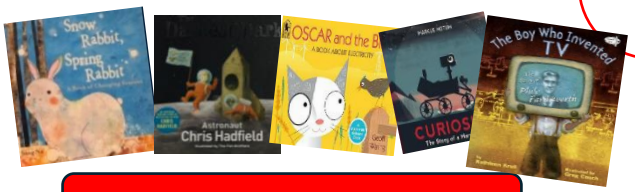
The working Scientifically skills are explicitly taught in each lesson, and we use symbols to help children recognise the skill they are developing. Children are exposed to all seven working scientifically skills and develop their ability to predict, question, observe, measure, interpret, communicate, plan tests and evaluate. These skills are progressive and tracked. Each lesson will also have a scientific enquiry focus where children are thinking about how they are applying their skills and answering scientific concepts. These enquiry types include comparative/fair testing, research, observing over time, pattern seeking and identifying and classification.

Early Years

In the early years children are constantly exploring the world around them. They are immersed in a rich environment which invites plenty of opportunity for them to follow their interests. They are deliberately exposed to knowledge which prepares them for the National Curriculum in Year 1 and beyond. They begin and understand the need to respect and care for their environment and all living things. They understand about seasons, the weather, animals and different materials through their continuous provision and curriculum offer.

Developing curiosity and hands on learning.

Planning of science includes a range of ways to make children curious about the topic they are studying. This may be through concepts such as odd one out, big questions, tinker tasks, videos or short practical tasks. We also develop children's science capital through a range of experiences, visits, trips and virtual reality experiences.



Developing reading and vocabulary

Most of our units use a text as a hook for learning. This immerses children into the topic whilst developing their love for reading. We recognise different scientific vocabulary and explicitly teach this throughout the unit. We ensure we promote diversity and equality through the texts and scientists studied.

Retreval practice and metacognition

In order for children to 'know more and do more' and retain the key performance indicators of each topic. Children have a range of retrieval activities and opportunities to revisit and recap previous learning. Children learn in different ways to support retention of information, this can be through practical activities, drama, literacy and outdoor learning.

Key Scientists

Throughout each topic, children will learn about key scientists from the past and present and how they have influenced, changed and developed the world we live in. These scientists are mapped across the curriculum.

Impact

Children leave each year with the knowledge and skills required to enable them to access and apply to subsequent learning. Children will be aware of different scientists and their contribution to the world. Children will be able to make links to previous learning and understand the relevance of these connections.