



Flushing C of E Primary School Curriculum Overview for Science

Subject Lead: Zoe Mitchell

Link Governor: Stacey Mullins

Rationale

At Flushing School, we want to develop a sense of excitement and curiosity, nurturing our pupils to flourish. We provide opportunities to develop scientific knowledge and conceptual understanding through the disciplines of biology, chemistry, and physics. Our science curriculum will enable pupils to answer scientific questions about the world around them and build upon the uses of science for their future.

Planning

We follow the Nation Curriculum which outlines the content that will be covered by each year group. We use this as a basis to plan a two-year rolling programme to match our mixed year groups. Units of work are placed to fit class topics, to create meaningful and engaging experiences for the children. The objectives being covered are identified on our topic web and can key vocabulary shared on our homework grids.

Delivery

Lessons will provide opportunities to carry out investigations, which involve different types of enquiries and help to develop scientific skills. Teachers will encourage pupils to build upon their working scientifically progression through a plan, do, record and review approach. Pupils will gain the tools to produce a scientific report but focus primarily on one main skill during a lesson.

Assessment

Teachers use formative assessment as part of their everyday learning and provide on-going feedback in a variety of ways to their pupils. They use summative assessment to summarise achievements and report this at the end of EYFS, KS1 and KS2. Relevant feedback is shared with parents in parents evening and in the annual school report.

Monitoring and evaluation

Zoe Mitchell is the subject leader for science. She is a teacher at the school and responsible for monitoring and coordinating science. She is available daily to give guidance or answer any questions. Book looks, learning walks and lessons observations are held to ensure the implementation matches the intents. The impact is evaluated, and feedback is shared with staff and governors where appropriate.

Connectivity – how it links to other subjects

At Flushing School, we have a topic-based curriculum, with a cross-curricular approach. The language that children hear and speak helps to develop their scientific vocabulary and ability to articulate science concepts. STEM is an approach to learning that links areas of science with technology, engineering, and mathematics. The children work scientifically to develop lifelong skills that can be applied in the real world.

Visits, visitors and extra-curricular activities

Through working collaboratively with Penryn College and Exeter University, pupils can take part in STEM projects. These will inspire pupils to consider science in higher education and potential future careers. We encourage learning in our beautiful, local environment and all classes can experience this. The Seahorse class have enjoyed taking part in beach and forest sessions. All pupils get the opportunity to go on school trips related to their class topic. The Dolphin Class have previously visited the Science Museum in London.

EYFS

In EYFS aspects of science are explored through the strand Understanding the World. Stimulating experiences and environments are used to develop scientific knowledge. Children are provided with opportunities to play and explore new concepts through independent provision. Children are provided with planned activities to check and extend their understanding with a supporting adult.

Use of ICT

ICT is incorporated into science lesson to support teaching and learning. Every class has access to iPads and most pupil have an allocated device. They use apps to help the children observe, measure, record and interpret data. They can use apps to creatively communicate and present their findings in a range of ways.

Staff Professional Development (CPD)

Last year the subject leader attended 6 CPD sessions to develop skills and strategies required to lead primary science. This year topics covered on the course and developments for the school will be shared during staff meetings. The subject leader attends science meetings to stay connected with local schools and the development of science in the South-West.

Governance

Stacey Mullins is the link governor for science. She is a parent of a pupil at the school and a teacher at Helston Community College. She is an active member of the governing body and attends governing meetings.