



Helping your child with Science

"The important thing is to never stop questioning" ~Albert Einstein



Our approach to teaching science

We believe that children must investigate the world. We encourage curiosity, supporting children to develop their understanding of scientific ideas.

Intent

- To develop Science teaching in a fun, creative, and cross curricular way with a focus on mastery and greater depth for all children.
- To provide real life, practical experiences, and opportunities for engaging children's curiosity in our world.
- To develop the skill of investigation.
- To expand understanding and use of scientific vocabulary to talk about their findings and communicate their ideas to a range of audiences in a variety of ways.
- To deepen their scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics.

- To broaden understanding of the; nature, processes and methods of science through different scientific enquiries that will enable our children to problem solve and answer scientific questions.
- To equip children with the scientific knowledge to understand the uses and implications of science, today and for the future.





How is my child supported with Science?

Science lessons are differentiated and provide age appropriate challenges.

Discussion is essential to embedding our learning and practical tasks are designed to allow children to follow lines of enquiry developing their own ideas.

Children work both collaboratively and independently solving scientific problems, which require them to persevere and develop resilience.

Feedback including our whole school 'next steps' system is designed to ensure children are well informed and making visible progress.

Science challenge questions enable the children to explore and expand on their work using their scientific reasoning.

Home Learning

As Our Home Learning policy aims to improve educational standards throughout home and school, whilst developing the concept that learning is a whole life experience and not just confined to school. Parents are therefore actively encouraged to be involved in their children's education.



How can I help at home?

Talking...

- Ask your child about what they can feel, hear, smell and see. Remind them that these are their senses and use the senses to explore.



- Observe and play with your child, asking them about what they are doing and how.

You can assist them through the following areas of science

You can provide your support by:

- Observing the world around us.



- Look out for cause and effect/patterns of change.
- Investigate how things are made.
- Share your scientific and technology knowledge, you are the experts at home.
- Look at their science learning focus in the Curriculum Overview on the schools website
- Encourage your child to explain what they think their science work in school was about and what they can remember from their lessons.

- Talk about the different seasons and how the weather and how day length varies.



- Talk about various trees and plants when looking at your garden or Local Park.
- Talk about a variety of birds, mammals, reptiles, amphibians, fish and reptiles.
- Growing plants and observing what they need to survive.



- Exploring how different materials at home can change shape, by squashing and bending.

Remember to keep activities practical.

Start your questions with.....

**Why? How? What? Where? Who?
Can?**

Useful websites

You may find these websites useful when looking for science online!



<https://wowscience.co.uk/>

[https://www.stem.org.uk/home-learning/
primary](https://www.stem.org.uk/home-learning/primary)

[https://www.topmarks.co.uk/Search.aspx?
Subject=26&AgeGroup=2](https://www.topmarks.co.uk/Search.aspx?Subject=26&AgeGroup=2)

[https://www.google.co.uk/intl/en_uk/
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Finally, remember...

