



Whole School - Science



'Dreams have the power to transform our lives.' Dr. Maggie Adern-Pocock
Dr. Maggie Adern-Pocock broke dyslexic stereotypes to become a rocket scientist.

Intent

At Tibberton and Hindlip C of E First Schools we aim to provide our children with a high quality, stimulating science education that provides them with the foundations they need to recognise the importance of science in *every* aspect of daily life. With science a part of everything we do in the modern world, we cannot fulfil our School Christian Vision without a strong commitment to this subject. As a School Federation we strive to serve with **Grace**, supporting each individual to flourish in all aspect of their lives. This is done in a caring and nurturing atmosphere where our children feel safe and happy.

Within our Science curriculum, it is our intention:

- To excite every child about the world the around them, enabling them to develop a sense of curiosity and wonder.
- To enable children to recognise the uses of science, what impact it can have today and in the future and what part they can play in this.
- To encourage children to respect and care for the world around them.
- To support children in asking questions about the world around them in order to develop their conceptual understanding and scientific knowledge.
- To enable children to become enquiry-based learners collaborating through researching, investigating and evaluating experiences.
- To encourage children to understand how science can be used to explain what is happening around them, predict how things will behave, and answer questions about the world we live in.
- To develop a fun, practical and engaging high-quality curriculum that inspires children to succeed and excel in science.

Implementation

Our Science curriculum is rich, varied and provides full coverage of the National Curriculum, following the programmes of study for each year group carefully. Our curriculum is carefully mapped to ensure our children are taught the scientific enquiry skills, knowledge and understanding, ensuring their learning is spiral based, progressive and continuous. Thus, it provides the right balance between working scientifically and learning scientific facts. By the end of their time at first school, it is our aim for all pupils to be able to:

- Ask and answer questions about the world around them.
- Question, explore, test, talk and develop ideas about everyday phenomena and the relationships between living things and familiar environments.
- Experience lessons that are fun, engaging and where they can work scientifically and apply their knowledge of science when using equipment, conducting

Whole School - Science

experiments and investigations in order to explore and explain concepts confidently.

- Think 'deeply' and talk confidently about their own science questions about what they observe, using the correct scientific terminology.
- Experience a progressive spiral based science curriculum that is based on 'hands on' varied scientific systematic investigative learning.
- Participate in lessons that are fun, practical, engaging and where working scientifically skills are embedded, built-on and developed throughout children's time at the school so that they can question, find out and problem solve for themselves.
- Make decisions about how they can answer science questions and which type of scientific enquiry is best to use, including observing changes over time, noticing patterns, grouping and classifying things, carrying out simple comparative and fair tests and finding things out using secondary sources of information.
- Draw simple conclusions and use scientific language to talk and write about what they have found out.
- Develop their understanding of their surroundings by accessing outdoor learning throughout their science learning.

Impact

Our high-quality science education will have a significant impact on our children, preparing them for life and providing our children with the foundations for understanding the world that they can take with them as they continue their primary education. The children will leave our school with:

- A sense of awe, wonder, understanding and respect for the world around them.
- Aspirations to look after our world and an understanding of the impact that they can have upon our world.
- The ability to question what, why and how things work.
- The ability to reflect on what they have learnt.
- The skills and knowledge to find out things for themselves.
- Strong scientific skills and scientific knowledge in order to continue to develop their own science learning and aspire to become scientists of the future.
- The ability to articulate their understanding of scientific concepts and be able to reason scientifically using rich language linked to science.

Hindlip Data outcomes*	Tibberton Data outcomes*
EYFS GLD: 2019 (86%) National: (72%)	EYFS GLD: 2019 (77%) National: (72%)
KS1 2019 (90%) National (82%)	KS1 2019 (88%) National (82%)

*Summer 2020/2021 is not published due to the Coronavirus