Science

Graiseley Primary School Curriculum

Subject On a Page

Vision:

"To encourage pupils' creative and inquisitive minds through exploring and discovering the world around them. This is so that they have a deeper understanding of the world we live in."

Intent:

At Graiseley Primary School we have adopted Plymouth Science scheme of work from EYFS to Year 6. It is a robust science curriculum that engages all learners through practical, evidence-based pedagogy. The scheme of work has been planned in line with the National Curriculum, ensuring time is appropriately attributed to each strand. Meaningful connections are made between topics so that they build into a significant body of knowledge across a wide range of aspects. The intent is that each child at Graiseley Primary School will become competent scientific thinkers and investigators who will encounter awe and wonder through first-hand scientific investigative experiences and approaches, which activate learning for all children. Plymouth Science promotes interactive lessons where children are encouraged to investigate problems, learn how Science works and discover why Science matters in the world. Being able to question and make sense of things are two of the key skills children gain from science lessons which they can hold onto for life.

Implementation:

We are very proud of our Science curriculum using Plymouth Science at Graiseley Primary School. In EYFS, Science is predominantly within their lifetime to develop a growing understanding of sense of self. Our curriculum has impact at its very heart. Every topic includes a strong focus on the skills of Scientific enquiry through an investigative and exploratory approach that makes learning memorable. Children will take away a deep understanding of both Science content and scientific method.

Science knowledge is important for children to be able to explain what they have learnt from the Scientific process. This process includes questioning, experimenting, collecting data, looking for patterns in results and drawing conclusions.

The content of the curriculum is not reduced for children with SEND, rather the way they access the curriculum and produce work related to it, is amended to suit their needs.

Key Scientific concepts explored and mastered overtime at Graiseley Primary:

- Research using secondary sources.
- Comparative and fair testing.
- Observing over time.
- Pattern seeking.
- Identifying, classifying and grouping.
- Seeking answers to questions using a scientific approach whilst working scientifically.

Impact:

The impact of this curriculum design will lead to outstanding progress over time, from EYFS to the end of key stage 2, relative to a child's individual starting point and their progression of skills. Children will:

- Be engaged in their learning and share a passion for science.
- Be confident in the use of key vocabulary in a range of contexts and are ambitious in achieving age -related expectations.
- Know more and remember more, demonstrating good progress from their starting points.
- Have the ability to explain their own Scientific thinking and understand that science is constantly developing and improving thus impacting our daily lives.
- Feel they are all scientists and capable of achieving high aspirations in the field of science. They understand that science has changes our lives and is vital to the world's prosperity.

Training and CPD for Subject Lead and Staff:

- Science network meeting 1 x termly
- Discussion with teaching staff about Plymouth Science offering CPD/support
- 1 x hour per week to monitor subject. To carry out staff, pupil and parent questionnaire, monitor lessons and books.