

What does science look like at Great Doddington Primary School?

Intent

Our intent is to deliver a science curriculum which is accessible to all and that will maximise outcomes for every child so they have knowledge that sticks and which builds on previous learning. As a result they will:

- Develop the vocabulary and oracy skills needed to be able to explain their scientific understanding
- Develop an understanding of the ways that science invention and technology can affect society and the environment and improve equality across the World
- Make links across the curriculum to ensure they develop a healthy mind and body
- Develop scientific knowledge and conceptual understanding of biology, chemistry and physics
- Develop investigative skills through different types of science enquiries so they can begin to answer questions about the world around them
- Develop an enthusiasm and enjoyment of scientific learning and discovery

Implementation

In Early Years the science curriculum comes under Understanding of the World. The classroom environment is set up to allow children to experience the world in which they live. They are encouraged to look closely at animals, mini-beasts and plants, and have the ability to use technology to further their understanding of whatever they might find or be interested in. They have access to a wide range of materials and can explore the properties of these through their play. They are encouraged to discuss similarities and differences between the things that they see and look closely at patterns and changes in their immediate environment. They are encouraged to prepare and eat healthy snacks and recipes and discuss how their bodies work and what keeps them healthy. Assessment in the Early Years is done through adult observation.

In KS1 and KS2 Science is taught, to ensure full coverage of the National Curriculum objectives. Children are taught in single age groups and have weekly lessons covering the units of work in the scheme for their age group. New vocabulary, information and concepts are introduced in the lessons, with every lesson beginning with a revisit of previous learning. Coverage, progression of skills, and vocabulary are planned across the year for each year group with a wide range of resources to support such as KAPOW Primary, BBC Bitesize and White Rose Science.

Impact

The successful approach to teaching science will enable a fun, engaging, high quality science education, that provides children with the foundations for understanding the world that they can take with them once they complete their primary education. The impact is measured using a range of assessment strategies including quizzes, topic assessments, observations and more formal summative teacher assessment at the end of key stages.

Therefore, children will:

- achieve age related expectations in science at the end of their cohort year
- retain the sticky knowledge needed to build on in the next years and in real life contexts
- be able to question ideas and reflect on knowledge
- will have the vocabulary to be able to explain their work and be able to reason scientifically
- will work collaboratively and practically to investigate and experiment.

What does science look like at Great Doddington Primary School?

Principles of learning

- To develop and promote an 'everyone can' attitude- for all children to succeed
- To frequently revisit learning
- To have high expectations for all pupils
- To prepare children for next steps in learning
- To develop confident learners
- To develop learners that are independent and resilient
- To develop the acquisition of oracy skills through the use of a broad vocabulary
- To ensure staff are using the correct (age-appropriate) scientific vocabulary confidently
- To support children to make connections in their learning with other subjects
- To be carefully planned for and maximised, giving a real life context where possible
- To be engaging and fun
- To be practical 'hands on' where possible
- To promote children's enthusiasm and curiosity for science is promoted at every opportunity.