

Our Science Intent.

Our science curriculum aims to enable pupils to transfer key knowledge to their long-term memory by nurturing their natural curiosity about the world around them. Pupils develop a secure understanding of scientific concepts through practical investigations, observation and enquiry, helping them to think and work as scientists. We provide children with opportunities to explore and investigate the living and physical world, both within our local area of Hursley and beyond, fostering a sense of awe and wonder about the natural world. Through first-hand experiences and meaningful scientific enquiry, pupils develop the knowledge, skills and confidence to ask questions, make predictions and draw conclusions about the world in which they live.

Links with other subject areas

Wherever possible, we aim to link the current area of study in science with other areas of the curriculum being studied. This may be through applying scientific knowledge within a wider context, revisiting prior learning, or making meaningful cross-curricular connections that deepen understanding.

High-quality texts are chosen to enrich and support the Science curriculum where appropriate, helping pupils to develop scientific vocabulary, curiosity and an understanding of the world around them.

Teaching and Learning in Science

Rooted in Faith, Growing in Community, Thriving in Learning

Love, Hope, Trust, Forgiveness



"Love one another
as I have loved you"
John 13:34

At John Keble Church of England Primary School, we are committed to providing the best possible educational outcomes for all children. We aim to ensure that children leave us with the Geography knowledge and skills specified within the National Curriculum:

[Science programmes of study: key stages 1 and 2](#)

The Science learning journey at our school.

1. **Knowledge:** What do the children need to know? What previous learning is relevant? Provide the children with new knowledge.
2. **Generate:** Children use the acquired knowledge and where possible, access practical resources to help ignite curiosity in order to form enquiry pathways that they may follow.
3. **Plan:** How will children effectively carry out an investigation which will answer their enquiry question? Which specific skill will be explicitly taught through this enquiry?
4. **Do:** Carry out the enquiry and record findings again ensuring there is a clear specific skill focus.
5. **Review:** Evaluate findings and use them to predict the outcome of an alternative enquiry question. Can children apply their knowledge to suggest plausible results?

Each Science unit will focus on one or more **specific skills**. These skills are:

- Think critically to ask questions and generate an enquiry.
- Make observations and take measurements and record these appropriately
- Use appropriate vocabulary and scientific diagrams when recording and reporting findings.
- Make connections and comparisons, noticing patterns, changes and relationships.
- Use scientific evidence to answer questions or support findings.
- Think critically to discuss findings and make suggestions.

[Adapting the curriculum for pupils with SEND in Science](#)

- At the start of lessons key vocabulary and facts will be revisited to help embed learning.
- Visual words mats will be used to help pre-teach new vocabulary prior to the lesson and children will revisit these words throughout the week to check for understanding.
- Regular check-ins to ensure children understand language, facts or concepts they may find challenging.
- Working walls display images and facts and are referred to regularly. Children are encouraged to use these if they are unsure in lessons.
- Widgeits, scaffolds and extra support will be given as and when necessary.