



Science Intent, Implementation, and Impact Statement

Intent

At Cecil Gowing Infant and Nursery School, our Science curriculum develops children's curiosity about the world around them. We want every child to build secure knowledge of plants, animals, humans, materials and seasonal change, and to recognise how this knowledge helps them explain what they see. From their earliest experiences, children learn to observe closely, ask questions, investigate and talk about their ideas. Science gives them opportunities to be creative in finding ways to explore, resilient when results differ from predictions, and kind in caring for living things and working with others.

Our Nursery and Reception provision builds the foundations for Science through Understanding the World and first-hand exploration of the natural environment. In Years 1 and 2, knowledge is taught in a planned sequence that meets the National Curriculum and revisits important ideas over time. Outdoor learning and purposeful practical experiences help children connect what they learn in the classroom with the school grounds, local environment and everyday life.

Implementation

Our Science curriculum is implemented through a structured approach that includes:

- **Early Years Foundations:** In Nursery and Reception, children explore plants, animals, weather, seasons and materials through stories, play, talk and direct observation. Adults introduce useful vocabulary, respond to children's questions and help them notice similarities, differences and change.
- **Sequenced Knowledge:** In Year 1, pupils study plants, animals including humans, everyday materials and seasonal changes. Year 2 develops these ideas through living things and habitats, plants, animals including humans, and uses of everyday materials. Teachers revisit vocabulary and key ideas so that children can make connections and remember more.
- **Outdoor Learning:** Children use the school grounds to observe growth, habitats, weather and seasonal change across the year. Growing plants, looking closely at living things and collecting observations make scientific ideas tangible and encourage care for the environment.
- **Continuous Provision:** In Nursery, Reception and Year 1, carefully chosen resources allow children to explore, compare, sort and test ideas independently. Adults use children's discoveries to extend vocabulary and deepen understanding. In Year 2, purposeful independent tasks support the transition towards more sustained enquiry.

- **Working Scientifically:** Pupils ask simple questions, observe closely, carry out simple tests, identify and classify, and use observations to suggest answers. They gather and record findings in age-appropriate ways, using drawings, photographs, simple tables and spoken or written explanations.
- **Inclusive Teaching and Assessment:** Teachers model practical tasks and precise vocabulary, then adapt resources, language and recording so that all pupils can participate. Questions, discussion and pupils' work help teachers identify misconceptions, revisit learning and plan the next steps.

Impact

The impact of our Science curriculum at Cecil Gowing Infant and Nursery School is reflected in:

- **Pupil Engagement:** Children show curiosity about the natural world, ask questions and take part confidently in practical learning. They enjoy observing change and sharing what they have discovered.
- **Knowledge and Vocabulary:** Pupils remember and use age-appropriate scientific vocabulary and explain key ideas about living things, materials and seasonal change. They connect new learning to their previous experiences and observations.
- **Enquiry Skills:** Pupils observe carefully, make simple comparisons, carry out tests and use evidence to explain their thinking. They recognise that an unexpected result is a chance to ask another question and investigate again.
- **Participation and Care:** All pupils can access scientific learning through practical experiences, talk and appropriate support. They work together, respect living things and begin to understand how their actions affect the environment.

In summary, our Science curriculum nurtures curiosity and builds the knowledge and enquiry skills children need for their next stage of learning. Through carefully sequenced teaching, practical investigation and regular opportunities to explore outdoors, pupils learn to understand and care for the world around them.