

Curriculum Intent Subject: Science

Intent

At Glenfield infant school, our intent is to ignite curiosity, develop critical thinking skills, and foster a love for scientific exploration among young learners. The intent is to provide a broad and balanced science curriculum that not only covers the statutory requirements but also makes use of the fantastic natural environment our school is set in.

Our Science curriculum aims to:

- Develop a strong foundation in scientific knowledge and understanding.
- Cultivate a spirit of inquiry, curiosity, and excitement about the natural world.
- Encourage pupils to ask questions, make predictions, and explore through hands-on experiences.
- Promote scientific vocabulary development and the use of scientific language in communication.
- Foster skills such as observation, prediction, and reasoning to enhance scientific thinking.
- Emphasise the importance of experimentation, investigation, and problem-solving in scientific enquiry.
- Create a supportive and inclusive learning environment where every child can thrive and engage with science.

Implementation

Through the implementation of our science curriculum we provide engaging, interactive, and tailored learning opportunities which meet the diverse needs of learners. It incorporates a blend of direct instruction, practical activities, outdoor exploration, and cross-curricular links to enhance the learning experience. This approach supports in developing both knowledge and skills, ensuring that children are not only learning about science but also becoming scientists.

Key features of the implementation strategy include:

- Sequenced progression of concepts and skills, building upon prior knowledge.
- Use of hands-on experiments, demonstrations, and real-life contexts to bring science to life.
- Regular opportunities for children to ask questions, make predictions, and test their hypotheses.
- Integration of technology and digital resources to enhance understanding and engagement.
- Adapted activities to cater to individual learning styles and abilities.
- Collaboration with external partners such as STEM ambassadors, scientists, and local experts to enrich learning experiences.
- Assessment practices that are formative, ongoing, and linked to learning objectives to monitor progress effectively.

Impact

The impact of our science curriculum can be seen in the progress and achievements of the children, their attitudes towards science, and their ability to apply scientific knowledge and skills in various contexts. The impact goes beyond academic outcomes to include the development of key skills, attitudes, and dispositions that will serve children well in their future scientific pursuits.

Out intended impact science curriculum for infants is to:

- Develop a keen interest and enthusiasm for science that extends beyond the classroom.
- Demonstrate a deepening understanding of scientific concepts and principles through practical application.
- Show confidence in asking questions, making predictions, and engaging in scientific discourse.
- Acquire a rich and varied scientific vocabulary that supports effective communication and comprehension.
- Exhibit a range of scientific skills such as observation, data collection, analysis, and problem-solving.
- Demonstrate resilience, resourcefulness, and a growth mindset when faced with scientific challenges.
- Nurture a lifelong love for learning and an appreciation of the wonders of the natural world through science.