



Intent

At the Globe Primary Academy our Science curriculum fosters a healthy curiosity in children about our universe and promotes respect for the living and non-living. It enables a strong understanding of the world around them, whilst acquiring specific skills and knowledge to help them to think scientifically, to gain an understanding of processes and an understanding of the uses of Science today and for the future.

At the Globe, children have opportunities to develop scientific enquiry skills such as making observations, planning and investigations, as well as being encouraged to question the world around them and become independent learners.

These skills are embedded in each topic the children study and these topics are revisited and developed throughout their time at school.

Implementation

A variety of teaching and learning styles are used in science lessons with the aim of developing children's knowledge, understanding and skills. This could be through whole class teaching, investigation or research based activities. We believe our pupils should be equipped with the skills and knowledge to:

- describe their scientific learning, by using technical terminology accurately and precisely,
- build upon existing knowledge and develop an extended vocabulary bank, and apply this throughout their learning journey,
- ask and answer scientific questions,
- develop practical skills by working scientifically,
- collect data and use technology to show results.
- discuss and question scientific concepts.

Each science topic is divided and organised into a sequenced knowledge progression for every half term with a focus on the progression of working scientifically. Each unit is planned with prior learning and the unit outcomes at the heart of learning process. We are committed to ensure all our children's needs are met and our planning reflects our knowledge of the children and guarantees learning is tailored to meet and respond to the children's individual ability needs. The aim is to provide appropriate differentiated support to enable children to achieve success by ensuring their varied needs are met.

At the start of a topic, teachers ensure that the prior learning knowledge is secure and that all children have a good understanding before moving on. Each topic comes with a list of key vocabulary linked to the concept being taught. All projects have cross curricular links, enabling natural over-teaching to further enrich and consolidate learning.

Impact

Our Science curriculum is high quality, well thought out and is planned to demonstrate progression to ensure age related attainment at the end of each Key Stage. Through the teaching of science, we offer children many opportunities to examine some of the fundamental questions in life.

Each topic's clear structure allows pupils to demonstrate:

- scientific skills
- their knowledge of scientific ideas through experiments
- recording of results and findings clearly and precisely
- a conclusion of their findings
- an understanding of concepts through pupil discussion.

Upon completion of each unit teachers will assess children against the progression of skills document. Termly assessment will take place to track children's progress against age related expectations for science.