



Science at Whittington Primary School



Whittington Curriculum Drivers

Inspired – Children will be taught about scientific discoveries in the past. They will consider how these discoveries have changed the world today. Learning about significant scientist who have made important contributions.

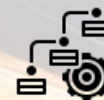
Articulate – Being able to formulate a hypothesis about a concept and support it with scientific understanding is important. Children will be required and supported in articulating their thoughts and reasoning with clarity and precision. Children will be taught and expected to use correct scientific vocabulary and subject specific vocabulary linked to the unit being taught.

Ambitious – Technical vocabulary will be shared from a young age. Children be expected to know and use the language accurately and work like a scientist. Science teaching provides the foundations for understanding the world through the disciplines of biology, chemistry and physics.

Curious – Children will experience and observe phenomena. Children will be encouraged to recognise patterns and ask their own questions. They will work scientifically when conducting experiments to help them understand more about a process or observation. The more they learn, the more questions they'll have!

Excited – Learning will be fun. There will be a lot of practical, hands-on learning that will involve the children actively learning and even getting messy. They will be stimulated by their discoveries and the implications of their results.

Knowledgeable – Knowledge will be revisited and tested regularly. Children need to know technical scientific knowledge in order to understand and process some of the more abstract concepts. Learning from the previous unit/term will be referenced so that children can build on existing understanding.



Sequencing of Content

Units are sequenced so that knowledge and understanding builds on previous units.

Prior learning is referenced at the start of new units so that foundations of learning are used.

Key concepts are interleaved throughout the curriculum so that they are regularly revisited.



Big ideas

We ensure that children know and understand 'big ideas' in Chemistry, Physics, Biology and Earth Science e.g.

- ☐ Physics (P1) The universe follows unbreakable rules that are all about forces, energy and matter.
- ☐ Chemistry (C3) Matter can change if the arrangement of these building blocks changes.



Deepening Concepts

Concepts are deepened over time as they are referred to throughout learning.

Links are made throughout the year but also between year groups.

Working scientifically is focused on every year with regular experiments and investigations to test a hypothesis.



Retrieval Practice

Children take part in regular retrieval practice activities.

Retrieval quizzes focus on what was taught last week, last month, last term and last year.

Remembering information and knowledge is celebrated and is part of the Whittington culture.