

Aims and Purpose:

Science learning at Toynton is focused on the acquisition of knowledge and the development of skills in accordance with the National Curriculum. We encourage children to be inquisitive about the world and nurture their innate curiosity, enabling them to develop a deepening understanding of the physical world around them. Having started their science journey in the EYFS curriculum, pupils will progress so that they by the end of Y6 they should:

- have developed scientific knowledge and conceptual understanding through the three main areas: biology, chemistry and physics.
- have developed their understanding of science through different types of scientific enquiry that help them to answer scientific questions about the world around them
- be equipped with the scientific knowledge required to understand the uses and implications of science and technology today and into the future.
- be equipped with a scientific skill set to support going forward in education.

Links

- Reflect the school's overall aims and values, the 6Rs and specifically Respect and Resilience.
- Links to history and geography where relevant in the curriculum.
- Links to DT, particularly materials.
- Forest School, particularly habitats, flora and fauna.



Science at

Toynton All Saints Primary School

How is the subject:

Delivered?

Pupils learn in a hands-on environment through research, experimentation and observation and are encouraged to be curious, question and draw evidence-based conclusions. A wide range of biology, chemistry and physics is experienced through both individual and collaborative learning.

Reception/EYFS

Science is included within the Understanding The World (UTW) section of the EYFS curriculum and is covered by *The Natural World* section in combination with geography. An element from the EYFS curriculum for each week is outlined in the UTW term overview and the learning is then tailored to the specific setting and is often linked with events in the school calendar, other subjects or the seasons.

KS1 and KS2

Between four and five science units, covering the three main subject areas, are covered each year as outlined by the National Curriculum. Each unit will last for approximately six sessions (a short term).

Opportunities for acquiring and developing skills (Working Scientifically) are threaded throughout the learning and both knowledge and skills progression are central, with learning building upon prior learning from previous years. Sessions are as practical as possible yet core skills such as developing questions, planning experiments, analysing results and drawing conclusions are central. A range of scientific equipment and resources are available to enable and support learning and our science curriculum is adapted to suit the needs of all learners including pupils with SEND.

How is the subject:

Planned?

- Science is taught as a discrete subject and follows the objectives for KS1 and KS2 as outlined in the National Curriculum.
- Units covered in each year group ensure progression in knowledge and skills building upon previous years.
- A range of resources are used to support planning including schemes from Twinkl, Hamilton and TES. Teacher also create their own resources and activities and adapt plans to take advantage of school facilities.
- Links with other subjects are considered (see LTP) and cross curricular learning is implemented where advantageous.

How is the subject:

Assessed?

Pupils are assessed against key content and working scientifically statements taken from the National Curriculum. These statements have been differentiated into WT/WA/Exc on our internal TAS which is completed 3 times per year. Opportunities for low-stakes quizzing are planned into units and teachers use their judgment based on observation, questioning and recorded work to assess against the criteria on Science TAS.