



Design & Technology at Tetney

Design & Technology: The Curriculum.

Design & Technology (DT) plays an important role within the curriculum at Tetney and is one of many subjects that help to accomplish our schools mission of creating prosperous and knowledge-rich pupils. Children have planned opportunities to use their creativity and imagination, to design and make products that solve real and relevant problems within a range of contexts. The DT Curriculum includes links to designs and designers throughout history, enabling children to critically reflect upon and evaluate their own designs. We aim to, wherever possible, connect work to other disciplines such as mathematics, science, engineering, computing and art. This provides the learning with a purpose and relevance to the children.

At the end of Foundation at Tetney

Pupils will gain a secure understanding of what DT is in a practical, playful and inclusive way with support and challenge from adults. Pupils will begin to develop vocabulary specific to DT, through stimulating continuous provision opportunities through adult scaffolding and evaluative interactions.

At the end of Key Stage 1 at Tetney

Pupils will develop their understanding of scientific concepts by using different lines of enquiry to ask their own questions, observe changes over time, recognise patterns, group and classify and conduct simple comparative tests. They will continue to build on their scientific language and communicate their understanding to a range of audiences, in a variety of ways.

At the end of Key Stage 2 at Tetney

Pupils will be able to develop a deeper understanding of a wide range of scientific concepts. They will do this through exploring ideas, asking their own questions about scientific phenomena and analysing functions, relations and interactions more systematically. They will be able to apply their understanding of specific scientific processes and recognise how these ideas help them to understand and predict how the world operates.

Pedagogy: How the Curriculum is Taught

Through a variety of creative and practical activities, we teach the knowledge, understanding and skills needed to engage in an interactive process of designing and making.

When designing and making, the school uses a standardised planning format to ensure the pupils are familiar with the design cycle:

Design – use research and develop design criteria to design for a purpose and communicate their ideas through a range of mediums.

Make – use a wider range of tools and equipment with accuracy and use a wider range of materials and components according to their qualities.

Evaluate – evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.

Assessment

We use a multi-faceted approach to assessment within DT.

- Skillful questioning lesson by lesson
- Focused practical tasks and purposeful evaluation
- Evidence of learning seen in the designs, completed products and evaluations from the children.

Cultural Capital

Enrichment events are an essential part of the Tetney DT Curriculum which enhances the knowledge-rich curriculum. The enrichment events provide pupils with discrete time to focus and deepen their learning, they provide opportunities for new experiences as well as nurturing and developing a thirst for learning.

Career Professional Development

We develop strong subject knowledge amongst all staff which is achieved through, comprehensive middle leadership and development, a focus on developing all teachers' subject knowledge and pedagogy and provision of high-quality planning resources.

Science Curriculum Overview:



Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	My History		Dinosaurs		Important People	Kings and Queens
Reception	My History Seasons	Our Planet and Beyond Homes	Dinosaurs My body	Important People Growing	10 Downing Street Growing	Materials Different places on Earth
Year 1	Seasons and Weather	Astronomy	Animals Including Humans	Materials	Plants and Growth	Living things and their habitats
Year 2	Plants	Animals and Being Alive	The Human Body and Staying Healthy	Electricity	Living things and their Habitats	Materials
Year 3	Forces and Magnets	Simple Machines	The Human Body	Living things and their Habitats (including classification)	Plants	States of matter (the water cycle).
Year 4	Animals including Humans.	Sound	States of Matter	Astronomy	Light	Living things and their Habitats (including classification)
Year 5	The Human Body	Rocks and Soils	Electricity	Light	Evolution and Inheritance	Environmental Science
Year 6	Changing States of Matter	Forces	Life Cycles	Life Cycles	The Human Body	Living Things and their Habitats.