



Winthorpe Primary School

Design and Technology

Intent

At Winthorpe, we aim to develop the children's creative, technical and practical expertise to enable them to perform successfully in an increasingly technological world.

Design and Technology is an inspiring and practical subject which uses creativity and imagination and allows children to design and make products that solve real and relevant problems within a variety of different contexts. Following our scheme of work allows children to be **hardworking** and **ambitious** designers, which results in outstanding pieces of work.

Throughout their time at Winthorpe, the children will acquire a broad range of subject knowledge and draw on other subject areas and skills such as Maths, Science and Computing and in doing so we aim for all children to become resourceful, innovative and enterprising.

Through the evaluation of past and present design and technology and their own products, the children will develop a critical understanding of the impact design and technology has on daily life and the wider world.

Our aim is to encourage children to be **confident and curious**, to develop new innovative designs and to be reflective learners by giving them opportunities to evaluate their own work, as well as the design and work of others within school and the wider world.

Children are **responsible** in testing their own products and making adjustments which enable them to change their designs and improve their end product. We aim to be **respectful and understanding** when looking at the work of others and giving praise to celebrate success, and words of advice when products need further work, enables children to become evaluative learners.

Implementation

At Winthorpe, Design and Technology is split into 5 different strands:

Cooking and nutrition
Structures
Mechanisms
Textiles
Electrical systems

In each of these areas the children follow the design, make and evaluate process and build on previous learning to progress their subject knowledge and skills as they move through school. The children are provided with many different experiences that are topic-based and provide enthusiasm and engagement in the subject.

In Design Technology, children will be asked to solve problems and develop their leaning independently. This allows the children to have ownership over their curriculum and lead their own learning in the subject.

Cycle A			
	Autumn Term	Spring Term	Summer Term
Year 1/2	Food – Sandwiches	Food – Fruit salads	Textiles – Glove puppets
	Structures – Tudor houses	Mechanisms – Moving vehicles	
Year 3/4	Electrical systems - Torches	Mechanisms - Storybooks	Textiles – Money containers
		Food – European Food	
Year 5/6	Mechanisms – Moving toys	Food – Vegan and vegetarian food	Textiles - Bookmarks
Cycle B			
	Autumn Term	Spring Term	Summer Term
Year 1/2	Structures – Castles	Food – Food around the World	Textiles – dinosaur cushion
	Mechanisms – Moving pictures	Mechanisms – Wind-up toy	
Year 3/4	Food - sandwiches	Mechanisms - Catapults	Structures – Photo frames
Year 5/6	Textiles – Make, do and mend	Mechanisms – Controllable vehicles	Food – chocolate products and packaging
	Structures – Air raid shelters		

Impact

Children will have clear enjoyment and confidence in Design and Technology that they will then apply to other areas of the curriculum. Through carefully planned and implemented learning activities the pupils develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world.

- Teachers assess children's development in Design and Technology by making on-going observations and also through questioning during lessons.
- Teacher Assessments are recorded every term (3x a year) where the children's progress in D&T is tracked and monitored against the National Curriculum levels of attainment.
- All formative and summative assessments are used to inform future planning and fill any gap in the children's knowledge.
- Pupil reports, comments and assessments are exchanged between teachers at the end of the year to allow for a smooth transition across classes.
- Parents' Evenings and end of year reports provide opportunities to share child specific D&T attainment with parents/carers.
- Curriculum coverage, lesson outcomes and achievements are shared in Gold Book assemblies and on our Class twitter pages
- Curriculum coverage is monitored throughout the school as well as the teaching and learning taking place during D&T lessons
- The impact of our D&T curriculum and the progress of our children is monitored for all pupils
- Appropriate staff training is provided to ensure teachers feel confident in delivering high quality D&T lessons across school.