

Design Technology

Design and Technology prepares children to deal with tomorrow's rapidly changing world. It encourages children to become independent, creative problem solvers and thinkers, as individuals and part of a team. Our DT curriculum provides children with opportunities to develop the skills of sculpture, textiles, electrical systems, mechanisms, food and nutrition and they are given the opportunity to explore and evaluate different creative ideas. The children are taught to combine their designing and making skills with knowledge in order to design and make a product. Skills are taught progressively to ensure that all children are able to learn and practice in order to develop as they move through the school. Evaluation is an integral part of the design process and allows children to adapt and improve their product. DT also allows children to apply the knowledge and skills learned in other subjects, particularly Maths, Science and Art. Children's interests are captured through themed topics, ensuring that links are made in a cross curricular way, giving children further meaning to their learning.



Design Technology Strands

Cooking and Nutrition

Where food comes from, balanced diet, preparation and cooking skills. Kitchen hygiene and safety. Following recipes



Mechanisms

Mimic natural movements using mechanisms such as cams, followers, levers and sliders.



Structures

Material functional and aesthetic properties, strength and stability, stiffen and reinforce structures.



Textiles

Fastening, sewing, decorative and functional fabric techniques including cross stitch, blanket stitch and appliqué.



Electrical Systems

Operational series circuits, circuit components, circuit diagrams and symbols, combined to create various electrical products.

	Design Technology 1	Design Technology 2	Design Technology 3
Early Years	Children in EYFS will have plenty of opportunity to get to know the prime areas design, make and evaluate as they explore different materials, processes and outcomes. They are encourage to question and problem solve. Exciting resources are provided to support the children's learning. Children also take part in specific tasks linked to the book of the week such as our Woodshop, or recipe week.		
Year 1	Structure - Woodwork <i>Rockets</i>	Textiles <i>Animal Glove Puppets</i>	
Year 2	Mechanism <i>Fire Engines</i>	Structure - Woodwork <i>Bridges</i>	Cooking and Nutrition <i>Healthy Wrap</i>
Year 3	Structure <i>Tudor House</i>		Mechanisms <i>Woodwork</i>
Year 4	Electrical Systems <i>Light Box</i>	Cookery <i>Victorian Inspired Food</i>	Textiles <i>Making a Teddy Bear</i>



Support and Challenge



- A range of accessible, open ended tasks with a clear outcome.
- Small steps are used to ensure all children can make progress.
- Extension tasks are provided to promote a deeper understanding and independent thinking.
- Children with SEND have specific targeted support according to guidance based on individual need, e.g. scaffolds, word banks.
- Opportunities are provided for peers to work together to support and challenge each other.