



Moor First School

Design and Technology

'Together we unlock potential and learn for life.'

### Intent

At Moor First School, it is our intent to provide a powerful curriculum to equip children to be prepared for the ever changing world. Our vision for Design and Technology is to enable every child with a comprehensive understanding and the ability to think critically, creatively and to solve problems as a team and individually. We encourage our children to use their imagination and creativity and provide them with useful technical knowledge and vocabulary to explore, investigate, design, make and evaluate products. Through a variety of D&T opportunities, we will deliver a progressive approach to learning, engaging, inspiring, challenging and equipping our children with the knowledge and skills to create and experiment with their own work. Design and Technology is taught with the use of concepts. Pupils have the opportunity to produce ambitious, creative work whilst exploring their own ideas and curiosity. Our children are provided with tier three vocabulary and opportunities to reflect, whilst being encouraged to take risks, become resourceful and innovative which will positively influence their future. High-quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the future generation.

### Implementation

The Design and Technology curriculum ensures the skills and knowledge that our children will develop are mapped across each key stage throughout the school to ensure clear progression. Key Stage One and Key Stage Two children are taught through a range of key skills and knowledge which is built upon their foundations in the Early Years Foundation Stage. Our children are taught using a two-year rolling cycle. As with other foundation subjects, Design and Technology is taught within blocks, allowing the children to immerse themselves into the subject area for a sustained period of time. To ensure effective implementation of our Design and Technology curriculum we follow the 'Rosenshine Principles'. understanding. The skills are constructed within the cycle of research, design, make and evaluate:  
**Research:** the children begin by looking at a significant individual and their invention and how this influences the child.



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**Design:** the children are given an aim which they link, explore and discuss to create their own design.

**Make:** they use their design to make their own product every term.

**Evaluate:** lastly, they evaluate their product based on their aim.

To guarantee consistency these four areas are taught throughout five knowledge and skills rich concepts:

**Mechanisms:** products that have motion and the ability to move which have specific input and output.

**Food and Nutrition:** nutrition is the study and process of how the body uses food to carry out and maintain its healthy function.

**Textiles:** the designing, both on paper and electronically, leading to the making of garments.

**Structures:** the arrangement of materials and/or parts to create a 3D shape.

**Electronics:** the design of circuits and their uses within a range of products.

The children have access to key knowledge, vocabulary and definitions, they will be able to apply this to their work in D&T and across the wider curriculum.

### Impact

Our curriculum will improve children's critical understanding, problem solving, questioning and teamwork. We ensure the children develop their creativity, technical and practical expertise which is needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world. Our children will use appropriate vocabulary when evaluating their own work as well as other designers. We hope to improve the children's cultural capital through the knowledge and skills and develop their risk-taking, becoming resourceful, innovative, enterprising and capable citizens. High-quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation.