



**Green Lea First School
Design & Technology**

'Learn, Explore, Achieve'

Intent

At Green Lea, our vision for design and technology is to enable every child with a comprehensive understanding and ability to think creatively and to solve problems both as individuals and members of a team. At Green Lea, we encourage children to use their creativity and imagination to, explore, design, make and evaluate products. The children are also provided opportunities to reflect upon design and technology, its uses and effectiveness whilst being encouraged to take risks and innovate.

Implementation

Key Stage One and Key Stage Two pupils are taught through a variety of key knowledge and skills which is built upon the foundational knowledge gained in the Early Year Foundation Stage. Pupils are taught using two-year rolling cycle. This cycle is planned following the Rosenshine Principles which promotes progression and an understanding of the whole child's Design and Technology journey and enables children to know more and remember more.

The skills are built up within the cycle of research, design, make and evaluate:

Research: the children start by looking at a significant person within that field and their invention and how it influences the child.

Design: the children are given a design aim which they link and discuss to create their own design.

Make: they then use this to make their own product every term.

Evaluate: finally, they evaluate their product based on their aim and then market their product to the target audience.

To ensure cohesion 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 of clothes

Structures: the arrangement of relationship of two or more parts.

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

Impact

At Green Lea, our aim is that children will have a critical understanding of Design and Technology on daily life and the wider world. They will use the appropriate language that the children have used when critiquing and evaluating their own work as well as other designs. We hope to develop our children's cultural capital through the accumulation of rich knowledge and skills and develop them as resourceful, innovative, enterprising and capable citizens whom can make an essential contribution to the community.