

# Lanercost Church of England Primary School

Care Believe Achieve

## Lanercost C of E School Design and Technology Key Concepts

### Why is Design and technology so important at school?

Design and Technology at Lanercost aims to give children the opportunity to develop skills, knowledge and understanding of designing and making functional products. At Lanercost, we feel it is vital to nurture creativity and innovation through design, and by exploring the designed and made world in which we all live.

### The 6 Substantive Concepts

<b>Cooking and nutrition</b>	Where food comes from, balanced diet, preparation and cooking skills. Kitchen hygiene and safety. Following recipes.
<b>Structures</b>	Material functional and aesthetic properties, strength and stability, stiffen and reinforce structures.
<b>Textiles</b>	Fastening, sewing, decorative and functional fabric techniques including cross stitch, blanket stitch and appliqué.
<b>Mechanisms/ Mechanical systems</b>	Mimic natural movements using mechanisms such as cams, followers, levers and sliders.
<b>Electrical systems</b>	Operational series circuits, circuit components, circuit diagrams and symbols, combined to create various electrical products.
<b>Digital world</b>	Program products to monitor and control, develop designs and virtual models using 2D and 3D CAD software.

These 6 Concepts develop and deepen as children move through Lanercost from EYFS to KS2. During EYFS the children focus on the first three concepts, in KS1 on the first four concepts and in KS2 they develop their knowledge of all six concepts.