



Design and Technology

Purpose of study

Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Pupils learn how to take risks, becoming resourceful, innovative, enterprising and capable citizens. Through the evaluation of past and present design and technology, they develop a critical understanding of its impact on daily life and the wider world. High-quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation.

Aims

The national curriculum for design and technology aims to ensure that all pupils:

- ♣ develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world
- ♣ build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users
- ♣ critique, evaluate and test their ideas and products and the work of others
- ♣ understand and apply the principles of nutrition and learn how to cook.

Long term Plans

	Autumn Term	Spring Term	Summer Term
Year 1	Eat More Fruits and Vegetables	Moving Minibeasts	Stable Structures
Year 2	Puppets	Vehicles	Perfect Pizzas
Year 3	Storybooks	British Inventors	Light-Up Signs
Year 4	Seasonal Stockings	Making Mini Greenhouses	Seasonal Food
Year 5	Building Bridges	Chinese Inventions	Fashion and Textiles
Year 6	Programming Pioneers	Bird House Builders	Burgers



Key Stage 1 Long Term Objectives

Objective	Year 1			Year 2		
	Eat More Fruit & Veg	Moving Minibeasts	Stable Structures	Puppets	Vehicles	Perfect Pizzas
design purposeful, functional, appealing products for themselves and other users based on design criteria						
generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology						
select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]						
select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics						
explore and evaluate a range of existing products						
evaluate their ideas and products against design criteria						
build structures, exploring how they can be made stronger, stiffer and more stable						
explore and use mechanisms [for example, levers, sliders, wheels and axles], in their Products						
use the basic principles of a healthy and varied diet to prepare dishes						
understand where food comes from						

