

Design and Technology Intent Implementation Impact Statement

Intent

We believe children should learn through a variety of creative and practical activities. Children should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. Through design and technology, children learn to think and intervene creatively; and to solve problems both as individuals and within a team. Children are encouraged to use their creativity and imagination, to design and make products that solve real and relevant problems. We aim (where appropriate) to link work to other subjects within our curriculum such as literacy, numeracy, science, PSHE, computing and art.

We aim to develop the creative, technical, and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world. We aim that our children understand and apply the principles of nutrition and learn how to cook simple snacks and meals. Throughout design and technology children develop skills and an ability to design, make, critique, evaluate and test their ideas and products and the work of others.

Our aim is for children to become resourceful, innovative and competent young designers, who are given the opportunity to explore their own ideas and develop the creative and practical skills required to solve real and relevant problems.

Implementation

Design Technology is taught across Key Stage 1 and 2. It is embedded within Topic (International Primary Curriculum) as well as in modules such as French, Literacy and PSHE. For example, in KS1 Literacy, children design a 'cracker house' for the Three Little Pigs. Within PHSE children develop their DT skills and understanding of how to build the highest tower whilst also learning about perseverance and developing teamwork. Food Technology is taught across the curriculum in subjects including Literacy, French and PSHE. LKS2 children learn to prepare and cook picnic food within Literacy, whilst reading *Wind in the Willows*. In French children learn language and culture associated with restaurants. They learn how to cook and prepare some French foods. In PSHE a module 'Healthy Me' develops an understanding of nutrition and a healthy development of our bodies.

When designing and making children are taught how to safely use and explore a variety of materials, tools and techniques whilst experimenting with colour, design and texture. They are encouraged to use what they have learnt about media and materials in original ways, thinking about the use and purposes of materials. They develop skills that enable them to handle equipment and tools effectively, including pencils for writing.

In EYFS (Badgers Class) children are taught design and technology through the Areas of Learning, 'Understanding the World', Expressive Arts and Design' and 'Physical Development Health and Self-care'.

In KS1 and LKS2 children design purposeful, functional, appealing products for themselves and other users based on design criteria. Children select from and use a range of tools and equipment to perform practical tasks, for example, cutting, shaping, joining and finishing.

In UKS2 children develop these skills as well as use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose. An example of this is within the 'Chocolate' topic where children design and make their own chocolate bars. They conduct testing of current market products, experience first hand mass produced chocolate at a local factory as well as developing their own chocolate range. This includes the costings, design and development, packaging and marketing of their chocolate bar.

Across the school children explore and evaluate a range of existing products as well as evaluate their ideas and products against design criteria.

In cooking and nutrition children use the basic principles of a healthy and varied diet to prepare dishes and understand where food comes from.

Impact

Thoughtful planning of progression and repetition enables children to develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world.

We are aware that a high-quality Design and Technology curriculum offer, makes an essential contribution to the creativity, culture and well-being of every child now and in later life.