

Intent

At Crosby-on-Eden Primary, we aim to equip the children with the skills, knowledge and understanding that they require to go on to have careers within design and technology. We hope that children will make use of design and technology effectively in their everyday lives, during their schooling years and beyond.

Our children will gain experience and skills of a wide range of formal elements of design and concepts of technology, in way that will enhance their learning opportunities, enabling them to use design and technology across a range of subjects, to be creative and to solve problems. They will learn to appreciate the product design cycle, through ideation, creation and evaluation. They will develop the confidence to take risks, to be innovative and to be reflective learners. They will be actively encouraged to think about sustainability and enterprise and will become aware of the impact of design technology on our lives.

We aim to fulfil the requirements of the EYFS and National Curriculum for design technology; provide a high-quality, broad and balanced curriculum and ensure the progressive development of knowledge and skills.

The aims of teaching design technology in our school, as set out in the National Curriculum, are for children to:

- 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

Implementation

To ensure high standards of teaching and learning in design technology, we implement a curriculum that is progressive throughout the whole school. Design and technology is taught as part of a termly topic, focusing on knowledge and skills in the EYFS/National Curriculum/Essentials Curriculum.

The design and technology curriculum at Crosby on Eden Primary School is based upon the EYFS and Primary National Curriculum in England, which provides a broad framework and outlines the knowledge and skills taught in each Key Stage. Teachers plan lessons for progression of knowledge and skills based on the Essentials Curriculum in KS1 and 2. A variety of teaching approaches are used based on the teacher's judgement.

At Crosby on Eden Primary School, we provide a variety of opportunities for design and technology learning inside and outside the classroom. The children are taught cooking and nutrition at their weekly Forest School sessions. They have opportunities to learn about local organisations and enterprises through visitors and visits.

Subject Organisation

EYFS

Design and technology related aspects are delivered through the 'Expressive arts and design' area of learning. This area focuses on children's creative development and a wide range of materials, tools and other resources are introduced and explored. Children's learning in design and technology draws on the 'arts' when they are designing and making, yet they essentially receive a genuine design and technological experience. The children and adult will be discussing different users, the purpose of their product and how it works. Children use a variety of materials and engage in imaginative role-play where they create and use indoor and outdoor environments based on the designed and made world.

Alongside teaching in 'Expressive arts and design', opportunities for design and technology engagement are maximised across all seven areas of learning in EYFS. This includes 'Understanding the world, where children learn about products and environments that have been designed and made by people. Children think about how a range of products are used in places such as schools and homes, they select and use these products for particular purposes. They investigate and evaluate them using a range of questioning techniques. They talk about features of their indoor and outdoor environment.

The skills and knowledge taught in the foundation stage provide a secure foundation for design technology, on which to build in Key stages one and two. Teachers follow a clear progression of skills in line with the Essentials Curriculum milestones and are given the opportunity to build on their prior knowledge.

KS1 and KS2

The school uses the National Curriculum for Design and Technology to plan for content coverage. We work on a two-year cycle to ensure coverage and progression of skills and knowledge. Class teachers are responsible for ensuring the skills and content appropriate to their class are taught. Knowledge organisers support pupils in their vocabulary progression.

Teachers follow a clear progression of skills which ensures all pupils are challenged in line with their Essentials Curriculum milestones and are given the opportunity to build on their prior knowledge.

Our projects develop the children's skills in:

- Mechanisms
- Textiles
- Structures
- Electrical systems (KS2)

Impact

Pupils will enjoy and thrive in their design technology lessons. They will leave school equipped with a range of skills to enable them to succeed in their secondary education. They will have an appreciation for the value of design and technology. They will know about key individuals, and events in history and today that impact our world. They will be innovative and resourceful members of society. They will be risk takers, problem solvers and have the confidence to carry out a range of practical tasks. Pupils will be able to explain why they are doing things as well as how they do things. They will be able to self-evaluate and reflect on their learning, suggesting ways to improve. They will meet the end of key stage expectations for design and technology as set out in the National Curriculum.

