

*St Matthew's Church
of England Primary
School*



*Design and
Technology Policy*

Introduction and intent for Design and Technology

We believe the teaching of Design and Technology (D&T) is an important part of the development of children. It encourages children to work as individuals or as part of a team. It also allows children to have to consider their own needs and the needs of others. It is a practical subject in which the children can use their imagination to design and make products that solve real and relevant problems in a variety of contexts. It allows children to develop their problem-solving skills and think of a variety of ways to get something to work. Pupils learn how to take risks becoming resourceful and innovative. The children find creating these things exciting, inventive, and great fun. Children learn about the world around them and how technology has brought about change.

Aims and Objectives

- All D&T lessons cover the three main objectives: Investigate, design, make and evaluate.
- Investigate and analyse existing products (This is what D&T lessons start with).
- Children are able to pick and choose the materials that they want to use to create their prototype.
- At the end of the topic, they are able to evaluate their prototype and test if it works.
- Children draw and annotate what they want their prototype to look like. They can have more than one drawing.
- Cooking and nutrition compulsory for both key stages - principles of healthy diet, where food comes from, seasonality and how food is grown and processed.

Curriculum

Early Years Foundation Stage

In Early Years, the two areas of learning that teachers focus on when planning and delivering D&T are: **Physical Development** and **Expressive Arts and Design**. In planning and guiding what children learn, practitioners must reflect on the different rates at which children are developing and adjust their practice appropriately, referring to the **Characteristics of Effective Teaching and Learning** these are: **Playing and Exploring** - children investigate and experience things, and 'have a go.' **Active Learning** - children concentrate and keep on trying if they encounter difficulties, and enjoy their achievements for their own sake. **Creating and thinking critically** - children have and develop their own ideas, make links between ideas, and develop strategies for doing things.

Key Stage 1

Children are able to see the products are available in the market. They are then able to design and create their own prototypes. They learn to handle tools and materials safely. Children carry out simple planning and they are shown the simple construction of prototypes.

Key Stage 2

D&T in KS2 builds on children's skills that they have learnt. They apply technical knowledge to design and make a wide range of prototypes. Children use their problem-solving skills to solve problems that may occur during the 'make' process.

Design and Technology curriculum planning

Design and Technology is a foundation subject in the National Curriculum. Our school ensures programmes of study from the National Curriculum are planned and taught. At the beginning of each D&T topic, teachers will complete a medium-term plan which outlines the learning objectives which are closely related with the national curriculum. They will also outline the skills that children will be taught. D&T is taught every other term and it's taught weekly so children can build on their skills that they have learnt.

Assessment

Children have a sheet stuck at the front of their D&T books and once children have completed a skill, teachers will tick if they have achieved it or not.

Monitoring

Monitoring of the Design and Technology books is done throughout the academic year and then feedback is given to class teachers.

Resources

There are a wide range of resources to support the teaching of design and technology across school, all classes have a range of basic resources. Other resources including gears, wood, fabrics, sewing materials etc are kept in a central location where staff are familiar with.

Health and Safety

Before children start using tools, they are taught the correct procedure for handling the equipment.

Food technology: school maintains records of all children with allergies prior to handling food. Teachers take this into account when they are buying and preparing the ingredients. In Early Years and KS1, when children are handling food they wear their different coloured bands so they are also aware about what they can and can't touch.