



**St Nicholas**<sup>CE</sup>  
First School

learning and believing, growing and achieving

# Subject Information: Design Technology

How do products  
in our world work?

Can I reflect and  
develop my ideas?

**Learning and Believing,  
Growing and Achieving**

Who are famous  
artists/designers?

How will I solve...?

How will I solve...?  
Creative thinking  
and making plans  
of designs

What resources  
do I need to  
make.....?

## **Principles of Design Technology at St Nicholas CE First School**

- To provide opportunities for all the children to design and make quality products
- To provide children with the opportunity to explore food and cooking techniques along with healthy eating health and environmental issues within food production. To develop design and making skills, knowledge and understanding to the best of each child's ability; using and selecting a range of tools, materials and components.
- To become creative problem solvers as individuals and members of a team.
- To be able to use ICT in conjunction with the Designing and Making process.
- To develop an ability to criticise constructively and evaluate their own products and those of others.
- To help the children develop an understanding and reflect on the ways people in the past and present have used design to meet their needs.

## **What is Design Technology?**

DT is a foundation subject in the National Curriculum for England for KS1 and KS2, and is a key skill developed across the Early Years Foundation Stage learning goals . Design and technology helps to prepare children for the developing world. The subject encourages children to become creative problem-solvers, both as individuals and as part of a team. Through the study of design and technology they combine practical skills with an understanding of aesthetic, social and environmental issues. Design and Technology helps all children to become discriminating and informed consumers and potential innovators. It should assist children in developing a greater awareness and understanding of how everyday products are designed and made.

## **How is DT taught?**

DT can be taught as a discrete whole-class lesson and within its own right but is also taught in smaller groups. Any knowledge, understanding and skills taught within discrete DT lessons can be applied across the curriculum. DT excites and enthuses children who enjoy exploring existing products, design and make experiences, resulting in a positive impact in all areas of learning and creative thinking.



## How will pupils learn?

Pupils will learn through a practical approach by exploring existing products which enables their learning to come to life. Key learning vocabulary is shared and explored with pupils so that they are effective in talking and reflecting on their learning. The children will be involved in designing their own products to a design specification or problem, making plans of their designs, practising skills and techniques, practical work making their designs and evaluating their effectiveness. To promote a rich partnership in learning between pupils, they will work independently, in pairs, and in small groups; this will enable effective learning discussions to take place and the sharing and modelling of knowledge, understanding and skills.

## What will pupils learn?

Pupils will learn the following in each phase:

EYFS	Key Stage 1	Key Stage 2
<p>DT activities are promoted and embedded across all of the early learning goals:</p> <ul style="list-style-type: none"><li>• communication and language.</li><li>• physical development.</li><li>• personal, social and emotional development.</li><li>• literacy.</li><li>• mathematics.</li><li>• understanding the world.</li><li>• expressive arts and design.</li></ul>	<p>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. They should work in a variety of contexts.</p> <p>They should be taught the basic principles of a healthy and varied diet. They should be taught to prepare dishes and understand where food comes from.</p>	<p>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. They should work in a variety of contexts.</p> <p>They should understand and apply the principles of a healthy and varied diet. They should prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. They should understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</p>



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## **How is learning assessed?**

Children demonstrate their ability in Design and Technology in a variety of different ways. Teachers will assess children's work by making judgments as they observe them during lessons. On completion of a piece of work, the teacher assesses the work and gives oral and written feedback to inform attainment and promote next steps to ensure progression. Pupils are encouraged to make judgments about how they can improve their own work and participate in peer assessment.

## **Access to Resources**

Children have access to a wide range of resources within their year group bases. The school continually monitors and maintains its resources. For special whole school projects and events resources are provided centrally.

## **How does it promote fundamental British Values and SMSC?**

British Values – Children learn how DT has impacted and shaped our nation in technological advances. Through DT we promote all of the British Values of tolerance and respect for the diverse world they live in.

Spiritual Development – Pupils have the opportunity to ask meaningful questions to extend their understanding about design technology; use and apply their learning purposefully and creatively; and how DT can be used to explore beliefs and new experiences.

Moral Development – Collaborative work in design and technology develops respect for the abilities of others and a better understanding of themselves. In addition, they develop a respect for the environment, for their own health and safety and that of others.

Social Development – Children will effectively communicate and collaborate with others during activities, whilst appreciating the diverse views of others.

Cultural Development – Children learn how DT has influenced the way in which people live, how technology has developed over different periods in history and enables them to recognise and develop an appreciation of the diverse world around them.