



Trinity

Primary School

Church of England / Methodist Ages 3-11

'Let your light shine'

DESIGN TECH. POLICY

Approved | April 2020

Next Review Date | April 2024

'Letting our light shine as we live, love and learn together with Jesus'

OVERVIEW

At Trinity Primary School we aim to inspire our future creators to take risks, become resourceful and innovative. Design and Technology in this school will develop pupils' creativity and imagination, as they design and make products for a wide range of users that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. 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. Through this subject, children are given the opportunity to expand and experiment with their own creative ideas, whilst learning new skills and reflecting on technology in today's society. High-quality design and technology education make an essential contribution to the creativity, culture, wealth and well-being of the nation.

INTENT

1. To help pupils to develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world;
2. To develop an understanding of technological processes, products and their manufacture, and their contribution to our society;
3. To enable pupils to build and apply their knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users;
4. To teach pupils how to critique, evaluate and test their ideas and products and the work of others;
5. To enable pupils to understand and apply the principles of nutrition and learn how to cook.

IMPLEMENTATION

1. Teachers will use a variety of creative and practical activities to teach pupils the knowledge, understanding and skills needed to engage in an iterative process of designing and making.
2. Pupils will use research to develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.
3. They will generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.
4. Pupils will work with a range of relevant contexts [for example, the home and school, gardens and playgrounds, the local community, industry and the wider environment].
5. They will be provided with opportunities to generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology; and they will apply their understanding of computing to program, monitor and control their products.
6. Pupils will select from a range of appropriate tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] whilst following safe procedures.
7. They will have opportunities to select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics, functional properties and aesthetic qualities.
8. Pupils will be given time to explore and evaluate a range of existing products and evaluate their ideas and products against design criteria, including their own design criteria and consider the views of others to improve their work.
9. They will be given the opportunity to build structures, exploring how they can be made stronger, stiffer and more stable; and use mechanisms [for example, levers, sliders, wheels and axels], in their products.

IMPACT

Through a variety of creative and practical activities, pupils will be confident in the knowledge, understanding and skills needed to enable them to engage in an iterative process of designing and making as they draw on other subjects such as mathematics, science, engineering, computing and art. Pupils will be confident to take risks as they develop and become resourceful, innovative, enterprising and capable citizens and they will understand how key events and individuals in design and technology have helped shape the world.