



MAT Policy updated:	July 2021
Review Frequency:	
Next review date:	July 2023

Subject Vision:

At Greenways Primary Academy, design and technology (DT) is a practical subject. Pupils use their creativity and imagination to design products that solve real and relevant problems within a variety of contexts. Pupils are taught how to work as a team and solve problems collaboratively. They draw on their knowledge of mathematics, science, engineering, computing and art and apply a wide range of subject knowledge. Through the evaluation of past and present design and technology, they develop a critical understanding of how it fits into their daily life and their future job aspirations.

Principles of Outstanding Design and technology:

These are the 'Principles of Outstanding DT at Greenways Primary Academy. They were informed by the way we feel that design and technology should be taught across the academy.

Principle 1: Children are **eager and motivated** about design and technology.

Principle 2: Children develop the **creative, technical and practical expertise** needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world.

Principle 3: Design and technology is **practical and hands-on** and children enjoy learning through exploration.

Principle 4: Teachers use a range of effective assessment strategies to inform the planning and teaching of design and technology.

Principle 5: Children **build, and apply knowledge and understanding** in order to design and make high-quality prototypes and products for a wide range of uses

Principle 6: Children are taught how to understand and apply the **principles of nutrition** and **take part in cooking experiences**.

Principle 7: Children can **critique, evaluate and test** their ideas and products and the work of their peers.

Principle 8: Teachers introduce children to a **range of vocabulary** that they can use **confidently and independently**.

Design and Technology Curriculum:

At Greenways Primary Academy, we aim to provide a design and technology curriculum that is creative, inclusive, challenging and inspired by the real-world. It inspires future thinkers, innovators and problem solvers in an immersive environment that stimulates curiosity and supports high-quality learning, allowing every learner to fulfil their potential. The design and technology aims are set out in the Early Years Foundation Stage Curriculum and National Curriculum 2014.

EYFS:

In the Early Years Foundation Stage, we teach design and technology through the Understanding the World and Expressive Art strands of the Early Years Framework.

Ongoing experiences and opportunities linking to children's developing understanding of the world, are planned from the objectives set out in the Early Years Framework. These underpin the curriculum planning for children aged 3-5 at Greenways Primary Academy.

The experiences that we provide ensure that children develop a secure understanding of the world around them. By the end of the Reception year, they will be able to:

- Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.
- Share their creations, explaining the process they have used;

KS1 and KS2:

The Primary National Curriculum for design and technology aims to ensure that all pupils:

- 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 and understanding 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.

Special Educational Needs

Through the equal opportunities policy, pupils with special educational needs will be included in all DT lessons. Staff, where appropriate, will modify activities to ensure children with special educational needs access the same Design and Technology curriculum as their peers.

Assessment

Formative Assessment (AFL): During the teaching of each National Curriculum unit of learning in Design and Technology, children's subject knowledge and ability to work creatively is assessed formatively by their class teacher. Teachers will consider the design and technology objectives covered during each lesson, or lessons, and also the final piece. The teachers will use these judgements to inform their future teaching and expectations of the children.

Summative Assessment: At the end of each project, teachers make a summative judgement relating to the children's knowledge and understanding of design and technology in line with

the objectives set out in the National Curriculum. This information is recorded on an online database, allowing academy leaders to track and monitor the progress and attainment of individuals as they progress through the academy.

Enrichment

Enrichment activities are carefully planned to enhance the DT curriculum; pupils are given the opportunity to broaden their experience and take part in a wide range of activities. There is a healthy tradition of extracurricular activities at Greenways Primary, which are led by staff or outside agencies. Written parental permission must be given for a child to participate in after-school clubs, and a register for attendance will be always be taken.

Monitoring

Design and Technology is monitored in a number of different ways. All subject leaders at Greenways Primary Academy are given time throughout the year to monitor, in depth, the different areas of their subject. One of the main areas of monitoring is pupil interviews. Giving pupils a voice in how each subject is taught, is a valuable tool to improve understanding of their likes and dislikes. It can provide insight into how the Design and Technology curriculum may be improved or enhanced.

Lesson observations and book looks play another important role in providing valuable feedback about the quality of teaching and learning across the academy. This provides an opportunity for the leaders alongside the lead for DT to evaluate the quality of education in a given subject area and identify priority areas for development which subsequently inform investment in CPD.

Health and Safety

In all areas of Design and Technology, health and safety guidelines will be strictly adhered to in order to promote safe practice. The general teaching requirement for health and safety applies in this subject.

Children are taught how to follow the appropriate procedures for food safety hygiene. Pupils are always properly supervised and instructed when they using new and potentially harmful tools. We teach all children to recognise and assess risks and hazards. We also encourage children to discuss and explain possible hazards.