

# Design and Technology (D&T)

## Intent

At All Saint's Denstone, our Design and Technology curriculum aims to inspire pupils to be creative thinkers, problem-solvers and innovators. We want our children to develop curiosity about how things work and the confidence to design, make and evaluate products that have a real purpose and function.

By the time our children leave us, we want our children to have:

- A positive attitude towards designing and making, understanding that mistakes are part of the learning process
- The confidence to take risks, be resourceful and work both independently and as part of a team
- A secure understanding of the design process – research, design, make, evaluate and improve
- A range of practical skills using different tools, materials and techniques safely and effectively
- An understanding of how design and technology impacts daily life and the wider world
- The ability to apply knowledge from other subjects, such as mathematics, science and art, to solve real-life problems

## Implementation

Design and Technology is taught as part of our question-based curriculum, often linked to topic work to provide meaningful, cross-curricular experiences, where children can apply taught knowledge in other areas of learning. Each unit of work follows the design, make and evaluate cycle, underpinned by technical knowledge and understanding.

In line with the National Curriculum, children are taught to:

- Research and explore existing products to understand their function and purpose
- Design purposeful, functional, and appealing products for themselves and others
- Generate, model and communicate ideas through drawings, templates, prototypes and digital technology
- Select and use a range of materials, tools and equipment safely and effectively
- Apply their understanding of structures, mechanisms, textiles, electrical systems, and food technology
- Evaluate their own work and the work of others to improve design ideas
- Understand the principles of nutrition and learn to prepare and cook food safely

Lessons are carefully sequenced to build on prior learning and develop skills progressively from the EYFS to Year 4. Teachers model techniques and support children to develop independence and problem-solving skills. Children are encouraged to reflect on their designs, make improvements

and take pride in their creations.

## **Impact**

At All Saint's, the impact of our D&T curriculum is seen in the enthusiasm, creativity and resilience with which children approach design challenges. Through practical, hands-on learning experiences, children develop confidence in applying their ideas to real-life contexts.

By the time our children leave us, they demonstrate:

- A clear understanding of the design process and the ability to take a project from concept to completion
- Increasing independence and originality in solving design problems
- Competence in using a variety of tools, equipment and materials safely
- An appreciation of the importance of design and technology in shaping the world around them
- The ability to evaluate and reflect thoughtfully on their own and others' work
- A growing understanding of how to make healthy food choices and prepare nutritious meals

Progress is monitored through formative assessment, observation, discussions, and evaluation of finished products. The enjoyment and sense of achievement gained through D&T lessons foster self-belief, collaboration and perseverance in our children.

Ultimately, our Design and Technology curriculum ensures that children leave All Saint's as creative, reflective and resourceful individuals, equipped with the skills, imagination and curiosity to contribute positively to an ever-changing world.