

DESIGN AND TECHNOLOGY

Our aims

At Stradbroke, Design and technology implements the school curriculum policy of providing a broad and balanced education to all children.

Through our design and technology teaching, taught either by class teacher or a HLTA, we provide learning opportunities that enable all pupils to make progress. We strive hard to meet the needs of those pupils with special educational needs, those with disabilities, those with special gifts and talents, and those learning English as an additional language, and we take all reasonable steps to achieve this.

A purpose of Design and Technology for life-long learning

Pupils design and make products that solve real and relevant problems within a variety of contexts. More often than not, design and technology is taught within topic or science and kindly complements art as well as computing. With further links to real-life scenarios, Design and Technology developing children's goal-setting skills, for example, when working on a project to meet a specific deadline or improving on an area of development after evaluation.

To view and read about recent Design and Technology designs at Stradbroke Primary School, visit:

www.stradbrokeprimary.uk

The teaching of design and technology supports the overall aims of the school in the following ways:

-Pupils gain a knowledge and understanding of materials, components, controls and structures.

-Children are focused on practical tasks to develop skills, techniques and knowledge, particularly those related to tools, food and materials.

(Contact Mrs Shelley for more details about the 'Lets' get cooking' club!)

-Pupils have the opportunity to investigate and evaluate a range of simple products which are found in everyday life.

-A range of Design and Technology activities are provided for pupils to develop their confidence when formulating their original ideas.

-Pupils should experience a sense of achievement having worked through a design process. that leads to the finished article.



Design and Technology at Stradbroke Primary School



What is Design and Technology?

At Stradbroke, we highly value the importance that the role of Design and Technology has on our lives. We use a broad range of knowledge, skills, and understanding, and prompts to engage children in a wide variety of activities. Design and Technology education involves two important elements - learning about the designs in the world and how things work, and learning to design and make functional products for particular purposes and users.

In Design and Technology, children acquire and apply knowledge and understanding of materials and components, mechanisms and control systems, structures, existing products, quality and health and safety, with recent emphasis on food technology.

What is the purpose of Design and Technology?

Pupils design and make products that solve real and relevant problems within a variety of contexts. Through evaluation of past and present Design and Technology, children develop a critical understanding of its impact on daily life and the wider world. Children at Stradbroke like making decisions for themselves and taking part in practical work. They love creating products they can see, touch - and even taste - for themselves and they feel proud to have done so during the design process.

Links to the curriculum

Design and Technology is as a compulsory subject at Key Stages 1 and 2 and is taught as part of the weekly timetable at Stradbroke, either on its own or within other subjects such as within enterprise. This year, the children in Year 6 have designed, made and evaluated their own string puppets and children in year 5 have explored designs, designed and created space buggies for the Missions to Mars related to their out of this world Earth and Space topic! During this process, children created a supportive chassis complete with axles and wheels so that their vehicle moved along.

Experiences such as these allow our children to apply their understanding to what improves and harms their local, natural and built environments when designing and making and provide the opportunity to apply their understanding to personal hygiene and how disease spreads, for example, when working hygienically with food.

Resources

Our school has recently ordered a wide range of resources to support the teaching of design and technology across the school. Classrooms have a range of basic resources, with some specialised equipment being kept in the design and technology store room, such as bench hooks and hack saws. This area is accessible to children but only under adult supervision.

Safety

We teach children how to follow proper procedures for woodwork, food safety and hygiene. For safe use of materials, including adhesives and tools, and teachers are expected to complete the relevant risk assessments prior to undertaking a design and technology activity. During D and T lessons, children also develop a respect for the environment, for their own health and safety, and for that of others. At Stradbroke, we feel it is important to develop children's cultural awareness and understanding, and learn to appreciate the value of differences and similarities.

How does design and technology support spiritual, moral, social and cultural development?

The teaching of design and technology offers opportunities to support the social development of our children through the way in which we expect them to work with each other in lessons. Both mixed ability groups, paired work and independent design work allows our children to work together and give them the chance to discuss their ideas and feelings about their own work and the work of others.

Through their collaborative and cooperative work across a range of activities and experiences in design and technology through school, the children at Stradbroke develop respect for the abilities of other children, and a better understanding of themselves.