

Design Technology at South Bersted

Through our approach to design and technology, we want our children to develop a curiosity and an enquiring mind about how things work, how they are built and their ultimate purpose.

The aim is that pupils will apply what they have learnt to create their own unique pieces of work and evaluate their success and next steps.

Why is Design Technology important at South Bersted?

Design technology allows pupils to develop their **skills and knowledge in design**, structures, mechanisms, electrical control and a range of materials, including food.

Developing these skills allows pupils to explore how things are made and to find solutions to a range of important issues.

What will children learn in art and design?

South Bersted's 'learning map', states the expectations at the end of each term.

At South Bersted, by the end of EYFS we aim for all pupils to:
safely use and explore a variety of materials, tools and techniques, experimenting with colour,
Share their creations of props and materials when developing their role play and understanding of stories,

At South Bersted, by the end of Year 2 pupils will have:
designed and created a functional, appealing car for a purpose, selected from and use a range of tools and equipment to perform practical tasks,
explored and evaluated a range of existing products and evaluated their ideas and products against design criteria,
created products using mechanisms including levers, sliders, wheels and axles,
Pupils will use the basic principles of a healthy and varied diet to prepare dishes including a fruit smoothie, bread and a healthy wrap.

At South Bersted, by the end of Year 6 pupils will have:
used research and developed a design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups, communicated their ideas through drawing, discussing and the use of CAD,
Use a wider range of tools including bench hooks, junior hacksaws and glue guns to cut and join materials accurately,
Deepened their understanding of mechanical systems including cams, pulleys and levers,
Used an electrical system in their product,
Pupils will deepen their understanding of the different food groups and follow recipes to create their own dish and meal including pizza and Fairtrade cupcakes.

DESIGN AND TECHNOLOGY SOUTH BERSTED

How is art taught at South Bersted?

Where appropriate, the teaching of design technology is linked to deepening pupils' understanding of their BIG question. Pupils begin by exploring and developing a range of skills and processes before applying their understanding to a final product during a blocked unit of work.

In addition to making a product or proto-type, each year group has a cooking and nutrition unit of work. Pupils will develop their understanding of where food comes from and the skills of preparing food safely. In addition to this, as part of the school's approach to outdoor learning, pupils participate in a 'fire and food' afternoon.

Evaluating theirs and others' work is a key part of our art and design curriculum and links to our approach of growth mindset.

