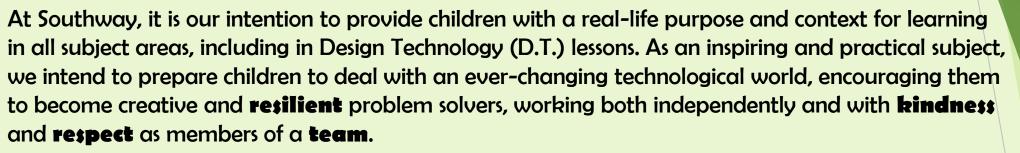
Design

Technology



Intent



We teach children to be inspired by real world opportunities and relevant problems, identifying needs and developing a range of ideas and solutions in a variety of contexts. By researching past and present technologies, where possible meeting real industry workers and applying knowledge learnt across other areas of the curriculum, children build their confidence, resilience, practical and analytical skills. Furthermore, they learn to overcome challenges and improve designs and products, all the while finding motivation and meaning for their learning. They will be on the way to becoming risk takers and innovators and will have used a range of tools, resources and materials, including the use of IT, to create effectively constructed and aesthetically pleasing results.

Food technology is also a big focus of our D.T. curriculum and we have a purpose-built kitchen in our DaVinci room. In all lessons, the children are encouraged to cook nutritious food from scratch, setting them up for a healthy future beyond the classroom.



Implementation

Design Technology (D.T.), as a discipline, aligns with the school's 'iii' pedagogical approach. Our school values are also intertwined within our D.T. lessons – children will develop their levels of **resilience**, **teamwork**, **independence** and **respect**. Lessons will follow the **design**, **make** and **evaluate** cycle. Each stage will be rooted in technical knowledge.

The design process should be rooted in an enquiry-based, real life, relevant contexts to give meaning to learning. D.T. is promoted through our school with a range of stimuli, including enrichment days, cross-curricular learning and discrete lessons interwoven in each year group's curriculum offer. Children will sometimes work independently and/or work as part of a group. To evaluate, children should be able to evaluate their own products against a design criteria.

Each of these steps should be rooted in technical knowledge and vocabulary. D.T. will be taught to a high standard where each of the stages should be given equal weight.

A wide range of resources will be made available for the children to use, including a dedicated D.T. room called the DaVinci. Opportunities will be made available for the children to use woodwork, textiles, kitchen equipment, technology, LEGO and iPads as part of our curriculum. By the time children reach year 6, they would have had experience of food tech, textiles, design and construction; they should be confidently performing everyday tasks and applying their knowledge, understanding and an increased level of skills as they progress through the school.



Impact

The school's long term, medium term and short term planning, followed by all teaching staff, is informed by Southway's progression of key skills document for D&T. The document has been informed and built upon the Design and Technology Association (<u>https://www.data.org.uk</u>)'s recommendations – the UK's leading D&T organisation for schools. The progression of skills ensures children revisit, revise and learn progressive knowledge, skills and understanding.

Physical products and photos will be made, shared and celebrated with the wider school community – through open afternoons, newsletters and/or social media.

There might be evidence in each of these stages in books, which should demonstrate clear progression across the key stages as they are passed up through each year group.

For food and nutrition units, booklets may evidence the process and high standards.





DESIGN AND TECHNOLOGY (D

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	Corriculum							
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ng 175 15	Work confidently within a range of contexts, such as the home, school, industry and the wider environment Describe the purpose of their products and exclain how the delay features of their products and exclain to intended users.	Cother information about the needs and twants of particular individuals and groups being their own design criteria and use these to inform their idees	ourry out research to identif					
	Explain how particular parts of their products work share and clarify ideas through discussion Model their ideas using prototypes and pattern pieces be computer-aided design to develop a communicate ideas the computer-aided design to develop and minumicate their ideas now how to use learning from science and themestic to the idea of the ideas.	Generate realistic ideas, focusing on the needs of the user	Generate innovative ideas, drawing on research					
th Kn an Kna	at work a second pusing and make products is converted by the second pusing and make products is converted by the second properties of the second public sec	now how to program a computer to sonitor changes in the environment and introl their products	Know how mechanical systems such as cams or pulleys or geans create movement Know how more complex electrical aircuits demonstration of the second second second functional products					
Know how to reinforce and strengthen a 3D framework								

Southway's Values











Curriculum Overview

Southway Junior School

"Learning and Achieving Together"



DESIGN TECHNOLOGY curriculum map

Year group	Autumn 1	Autumn 2	\$pring 1	\$pring 2	\$ummer 1	\$ummer 2		
	<u>Me and My World</u> Woodwork: Picture frames		Raiders & Invaders Making hand and finger puppets for a production		Battles and Bangs			
Year 3	Food Tech: Scones & gingerbread		Food Tech: Bumbo drink		Food Tech: Healthy sandwich wraps			
Year 4	Victorian Towns and Twisted Tales Woodwork: Box with hinge and lid		<u>Mysterious Maya</u> Chocolate Day		To Infinity and Beyond LEGO			
	Food Tech: Victoria sponge		Food Tech: Maya guacamole		Food Tech: Space ice cream			
Year 5	<u>Power and Palaces</u> Making Tudor money pouches (textiles).		<u>We'll Meet Again</u> LEGO		Seas, Storms & Survival Woodwork: Bird Boxes			
	Food Tech: Cheese and onion quiche		Food Tech: VE day rations & bubble and squeak		Food Tech: Sushi			
Year 6		Frozen in Time Walk Like an Egyptian LEGO Woodwork: crane				Blood, Bones and Body Bits LEGO: Overcoming contextual problems		
		Tech: oup	Food Tech: Sautéed chicken and salad		Food Tech: The Great Southway 3-course-menu			

STANDARDS IN YEAR 3

















STANDARDS IN YEAR 5





STANDARDS IN YEAR 6





Pupil Voice



"The D.T. lessons where you use coding to program and control our LEGO models are the best! When making the models it is important to solve problems and follow instructions very carefully. You have to be very resilient!" (Year 6)

"I LOVED making the puppets and creating our own puppet show to show off our work! I learnt how to stitch in four different ways! I found overstitch the best for my puppet." (Year 3)

"I learnt trickier stitches in year 5 for our Tudor pouch. It was important that there were no holes – otherwise the coins would fall out! We also used new stitching techniques to make our pouch close and look attractive. " (Year 5) "D.T. is my favourite subject because we get to learn about different foods, where they come from and the important of a healthy diet. My favourite part is when we get to eat our work!" (Year 5)

> "I like the lessons where we get to use the saws. You have got to be very careful and accurate with your work, otherwise the product won't line up or look very good. I'm really proud of the bird boxes we made – I can't wait to see which bird in my garden uses it as its new home!" (Year 5)

"My favourite lessons in D.T. are when you get to make models and control them using the iPad. You have to use good teamwork and resilience as we have to solve all of the problems ourselves!" (Year 4)

Enrichment Opportunities

The theme for the Big Draw was "Make a Change". The children repurposed plastic milk bottles into 3D bird feeding sculptures, eventually planting all 357 of them on the school field to create one giant bird! The children's pledges were also written on their sculptures which were then taken home afterwards. A video was uploaded to YouTube of the children's pledges & birds.





Enrichment Opportunities

Once a week, Mrs Mottram runs
an art and craft club in the DaVinci for children who show a
passion for the art and DT.

Children have a wonderful time exploring and experimenting with different media, creating products, honing and developing their skills.



тне Craft Club

Dedicated D.T. Space: The DaVinci

At Southway we are fortunate to have a dedicated art and D.T. classroom called The DaVinci. This bespoke facility has a purpose-built kitchen, clay sinks, art materials and enough tables/stools to fit a whole class in.

GEARED

