

Design and Technology Curriculum

Our Design and Technology curriculum aims to inspire children to think about the important and integral role that design, and the creation of designed products, plays in our society. Wherever we look, evidence of design is all around us.

The curriculum fulfils the requirements of the National Curriculum for England. This course of study seeks to show how design and technology shapes the world around us. The curriculum is split into three different areas: 'cook', 'sew' and 'build'. It is designed so that each year group will complete a unit of work in these three different areas once a year.

Two different 'aspects' of design are interwoven into the three areas of study: the environment and sustainability, and enterprise and innovation. These 'aspects' acknowledge enduring and contemporary concerns of modern design. Each unit specifies the concepts and skills which the students are expected to learn over the course of a unit. These concepts and skills progress gradually throughout the course of the six years of study.

Curriculum Map

	Curriculum Map and Key Knowledge Goals					
	EYFS					
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	All About Me Sew Sewing to join Sewing to make patterns	Journeys Build Making objects float Vehicle with wheels	Space Build Joining techniques Materials chosen for their purposes	Growing and Changing Cook fruit kebab/salad Nutrients that keep us healthy	Kings and Queens Build Joining techniques Materials chosen for their purposes	Stories from the Past Cook Design and decorate Making food more appetising
	Key Stage 1					
	Autumn		Spring		Summer	
Year 1	Cook Dips and Vegetables - Nutrients in fruit and vegetables - Sweet and savoury - Raw and cooked Jam Tarts - Different seasons. - Pastry. - Preserving fruit		Sew Animal Sock Puppets - Different materials - Fabric suitability - Reusing materials - Reason or purpose. Designing and planning		Build Vehicles - Vehicles have wheels. - An axle can join two wheels on a vehicle together. - Some vehicles move using wheels and axles. - Who will use it, what it is for, and what it will look like.	
Year 2	Cook Pizza - Pizza comes from Naples in Italy. - Pizza was a cheap food. - Pizza is made from savoury dough.		Sew Pencil Cases - Sewing is a way to join fabric together. - Needle and thread are used to make stitches. - Function and appearance - Running stitch - Creating a seam		Build Moving Pictures - How a lever and slider mechanism works. - A lever is a mechanism - Who will use it, what it is for, and what it will look like?	
	Lower Key Stage 2					
	Autumn		Spring		Summer	
Year 3	Sew Key Rings/Decorations - Natural or synthetic fabric - Materials from animals and plants - Felt is made by pressing materials together - running stitch and backstitch - backstitch is stronger than running stitch.		Build Pop-up Books - How a linkage mechanism works. - Linkages are used to change direction of motion - Who will use it, its function and aesthetic appeal.		Cook Bread and Butter - Wheat makes flour which can be made into bread - Cows make milk which can be made into butter	

Year 4	Sew Cushions • Appliqué is a sewing technique used for decoration • Appliqué is a very old sewing technique and was used by the ancient Egyptians	Build Moving Miniature Playgrounds • How a gear mechanism works • Gears are wheels with teeth which interlock • Drive gear transfers motion to a driven gear	Cook Apple Crumble • Apples are grown in Great Britain • Apples can be part of a healthy diet • Different varieties of apple which ripen at different times of the year
	Upper Key Stage 2		
	Autumn	Spring	Summer
Year 5	Build Cams Toys • How a cams mechanism works • Cams mechanism transfers rotary motion to linear motion • Different shaped cams cause the follower to move up and down in a different way	Cook Pitta Bread • Wheat can be used to make different types of bread • Wheat is processed to make flour • Bread can be made using yeast which makes it rise	Sew Bags • Appliqué and embroidery are different sewing techniques which can be used to decorate fabric • Backstitch can be used for joining two pieces of fabric together to make a seam or a hem
Year 6	Build Water Wall • How an Archimedes' screw and a pulley work • A pulley helps to lift loads more easily • Engineers can make environmentally friendly designs	Cook Mezze • A mezze is a selection of small savoury dishes which are shared • A mezze is cooked in countries such as Greece, Bulgaria, Turkey, Iran and Iraq	Sew Upcycling Fashion • What is meant by 'fast fashion' • Upcycling means using an old, disused item to make a new one • Different sewing processes for making clothes: seams, hems and decoration
		Build Electrical Toys • When designing a product, we need to think about who will use it, its function and aesthetic appeal	