

Design Technology 4 Year Overview

Year A 2024-2025	Autumn	Spring	Summer
EYFS	Food What fruits do I like? Children will test, investigate and create their own fruit salads for the rest of the class to try.	Junk Modelling Where would I like to live? Children will use junk modelling resources to create a model of a home for themselves.	Mechanisms How can I make a picture move? Children will explore and create a sliding image of a character from a book they have studied in class.
KS1	Food What are the best fruit combinations? Children will test, investigate, design and create their own fruit smoothies.	Structures What are the features of a castle? Children will design and create a structure of a castle with specific features identified using recycled materials.	Mechanisms How can I make a figure move? Children will create a moving Olympic athlete using sliders and levers to recreate a fairytale they have studied in class.
KS2	Textiles How did the Romans carry their goods? Y3/4 - Children will investigate, design and create a coin purse for a Roman thinking carefully about their joins. Y5/6 – Children will investigate, design and create a tote bag able to hold a weight.	Electrical Systems How can I make an object move? Y3/4 – Children will use an electrical circuit to move their own artistic doodler. Y5/6 – Children will create an electrical circuit to allow their motorised vehicle to move. They will test how far their vehicle can move carrying an item.	Food What did the Ancient Greeks eat? Y3/4 – Children will research, test and create a Greek frittata. Y5/6 – Children will research, test and create their own recipe of a Greek mousakka.

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Year B 2025-2026	Autumn	Spring	Summer
EYFS	Textiles How can I join materials? Children will use a variety of materials and resources to investigate how they can join two things together.	Junk Modelling/Textiles How does the Easter Bunny carry the eggs? Children will use resources to create their own basket for the Easter Bunny.	Food How do you like your toast? Children will investigate the different ways of toasting bread and how we can change the colour of it.
KS1	Textiles How can I cut and join materials? Children will design and make felt poppies to display at the village war memorial for Remembrance Day.	Mechanisms How can we help Jack get the golden egg down the beanstalk? Children will work together to create a pulley system to move an object up and down to different levels.	Food What makes the best pizza base? Children will research, test and create a variety of suitable pizza bases. They will then use their research to design and create a pizza of their choice.
KS2	Food How stable are gingerbread houses? Y3/4 – Children will work in small groups to design and create a small traditional gingerbread house complete with decorations. Y5/6 - Children will explore different biscuit types and ingredients to join. They will work in groups to create a unique take on a gingerbread house with a moving feature.	Structures Where does our school's wildlife live? Y3/4 - Children will collect data on the insects that live in our school grounds. They will work in small groups to create a bug hotel to place in the school grounds. Y5/6 – Children will monitor the wildlife in the school grounds. They will create a wooden bird box to go in the school grounds.	Mechanisms How can we make a vehicle move? Y3/4 – Children will work in groups to explore air resistance and design and make a balloon car. Y5/6 – Children will research, design and create a slingshot car.

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Year C 2022-2023	Autumn	Spring	Summer
EYFS	Structures What do hedgehogs need to keep warm? Children will investigate hibernation of animals and use junk modelling and natural materials to create a hibernation box for hedgehogs.	Food What toppings do I like on my pancakes? Children will try and test different pancake toppings and discuss their ideas. They will then use support to select and prepare their preferred toppings.	Mechanisms What vehicles can we make? Children will investigate different vehicles seen in the community and use materials to create their own wheeled vehicle.
KS1	Structures How does a windmill work? Children will investigate the movement of windmills. They will then create their own windmills with rotating blades to use in the school grounds.	Food – Shrove Tuesday Which pancakes do we prefer? Children will investigate the differences between crepes and American pancakes comparing ingredients. They will then create their preferred choice including toppings.	Mechanisms How can an astronaut move on the moon? Children will design and make a moon buggy using wheels and axels.
KS2	Mechanisms How will we move the tomatoes? Y3/4 – Children will work in groups to research and create a pulley system to move tomatoes down a mountainside. Y5/6 - Children will work in small groups to use a range of methods to create a mechanical system that transfers the tomatoes across a body of water.	Textiles How can I join fabrics? Y3/4 – Children will design and create their own pencil case using different techniques to join materials. Y5/6 - Children will design and make their own purse or wallet (with a hidden compartment) using a range of sewing techniques to join materials and a range of embellishments.	Food What foods are eaten during religious celebrations? Y3/4 – Children will research and taste test foods eaten during religious celebrations. They will create packaging for a specific food. Y5/6 - Children will work in groups to create a menu (including prices) for a religious celebration.
			Digital World How can the digital world help us? Y3/4 – Children will design and program a Microbit to create a mindful moments timer. Y5/6 – Children will design and program a Microbit to use as a compass to navigate the world.

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Year D	Autumn	Spring	Summer
EYFS	Textiles How can we use nature in our work? Children will use natural resources found in the school environment to create a collage.	Mechanisms How can I make a pop-up card? Children will design and create a card for Mother's Day that has a pop-up element. They will focus on cutting their card to allow for an image to stand up.	Food What sandwich fillings are my favourite? Children will test a variety of sandwich fillings and discuss their preferred choices. They will then create their own sandwiches using support from an adult to use equipment.
KS1	Textiles How can we recycle and reuse? Children will use recycled materials to create an image of harvest for the Church.	Structures How can I make a pirate ship float? Children will use recycled materials to design and create a ship for a pirate. They will look at waterproof materials and materials that can float.	Food What healthy choices can we make? Children will explore healthy choices for toastie fillings. They will then create their own toasties using a filling of their choice.
KS2	Textiles How does embroidery change my designs? Y3/4 – Children will work to create a small pillow for a Victorian child working in a mill. They will focus on different sewing types and embellishments. Y5/6 – Children will design and create a small stuffed toy for a Victorian child. They will focus on different sewing techniques for joining and embroidery..	Structures How can I create a Viking structure? Y3/4 – Children will work in groups to design and create a Viking Trelleborg fort thinking carefully about how to join and strengthen materials. Y5/6 – Children will work independently to create their own Viking Longship to ensure it can float and hold a weight.	Food How has chocolate changed since the Ancient Maya? Y3/4 – Children will test different ingredients to create their own recipe for chocolate bark. Y5/6 – Children will test different ingredients and recipes to create their own chocolate truffles.