



John Bunyan Design & Technology Overview

	Autumn	Spring	Summer
EYFS	To join different materials and explore different textures. How can I design and make something useful from everyday materials?	Refine ideas and develop ability to represent them. ELG: Safely use and explore a variety of materials, tools and techniques. How can I explore materials and tools to create and improve my ideas?	Create collaboratively, share ideas, resources and skills. ELG: Safely use and explore a variety of materials, tools and techniques. How can we work together to create something using different materials and tools and explain what it is we have done?
Year 1	Food: Preparing fruit How can I make a healthy snack? Use the basic principles of a healthy and varied diet to prepare dishes and understand where food comes from.	Structures: Freestanding structures How can I build a strong and stable structure? Design, build and evaluate a stable freestanding structure using appropriate materials and techniques.	Textiles: Templates & joining techniques How can materials be joined together? Design, make and evaluate a textile product using templates and simple joining techniques to create a functional item for a specific purpose.
Year 2	Mechanisms: Wheels and axels How can I make a vehicle move using wheels and axles? Design, make and evaluate a moving vehicle using wheels and axles to achieve purposeful movement.	Mechanisms: Sliders and levers How can I make a picture move? Design, make and evaluate a simple moving picture using sliders and levers to create movement for a user.	Food: Preparing vegetables How can I make a healthy snack by choosing the right ingredients? Use the basic principles of a healthy and varied diet to prepare dishes and understand where food comes from.



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Year 3	Textiles: 2D shape to 3D product How can I join fabric to make a useful product? Design, make and evaluate a functional textile product using simple sewing techniques to join materials.	Food: A healthy and varied diet (Bread) How can I design a nutritious and healthy snack safely and hygienically? Understand and apply the principles of a healthy and varied diet and prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.	Structures: Shell structures How can I design packaging that protects and attracts? Design, make and evaluate packaging using shell structures that are strong, functional and visually appealing.
Year 4	Mechanical systems: Lever and linkages How can I use levers and linkages to control movement in a product? Design, make and evaluate an interactive product using levers and linkages to control movement.	Food: A healthy and varied diet (Snack bars) How can I design a nutritious, healthy and balanced snack? Understand and apply the principles of a healthy and varied diet and prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.	Electrical systems: Simple circuits and switches How can I use electricity to make a product that works? Design, make and evaluate a functional product that incorporates a simple electrical circuit and switch.
Year 5	Structures: Frame structures. How can I design and build a strong frame structure that meets a specific purpose? Design, make and evaluate a strong frame structure using triangulation	Mechanical systems: Pulleys or gears. How can mechanisms make work easier? Design, make and evaluate a product that uses mechanical systems such	Food: Celebrating culture and seasonality. How can I create a dish using seasonal ingredients? Understand and apply the principles of a healthy and varied diet. Prepare and cook a variety of predominantly



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	and reinforcement for a specific purpose.	as gears or pulleys to transfer movement.	savoury dishes using a range of cooking techniques. Understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed.
Year 6	Mechanical systems: Cams How can I design and make a product with a cam-based mechanism? Design, make and evaluate a product using a cam-based mechanism.	Textiles: Combining different fabric shapes. How can I design and make a functional and appealing garment? Design, make and evaluate a functional textile product using a range of sewing, joining and finishing techniques for a specific user.	Food: Celebrating culture and seasonality How can I create a dish using seasonal ingredients that reflects culture? Understand and apply the principles of a healthy and varied diet. Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. Understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed.