



John Bunyan Design & Technology Overview

	Autumn	Spring	Summer
EYFS	<p>To join different materials and explore different textures. How can I design and make something useful from everyday materials?</p>	<p>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?</p>	<p>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?</p>
Year 1	<p style="text-align: center;">Food: Preparing fruit How can I make a healthy snack?</p> <p style="text-align: center; color: purple;">Use the basic principles of a healthy and varied diet to prepare dishes and understand where food comes from.</p>	<p style="text-align: center;">Structures: Freestanding structures How can I build a strong and stable structure?</p> <p style="text-align: center; color: purple;">Design, build and evaluate a stable freestanding structure using appropriate materials and techniques.</p>	<p style="text-align: center;">Textiles: Templates & joining techniques How can materials be joined together?</p> <p style="text-align: center; color: purple;">Design, make and evaluate a textile product using templates and simple joining techniques to create a functional item for a specific purpose.</p>
Year 2	<p style="text-align: center;">Mechanisms: Wheels and axels How can I make a vehicle move using wheels and axles?</p> <p style="text-align: center; color: purple;">Design, make and evaluate a moving vehicle using wheels and axles to achieve purposeful movement.</p>	<p style="text-align: center;">Mechanisms: Sliders and levers How can I make a picture move?</p> <p style="text-align: center; color: purple;">Design, make and evaluate a simple moving picture using sliders and levers to create movement for a user.</p>	<p style="text-align: center;">Food: Preparing vegetables How can I make a healthy snack by choosing the right ingredients?</p> <p style="text-align: center; color: purple;">Use the basic principles of a healthy and varied diet to prepare dishes and understand where food comes from.</p>



John Bunyan Design & Technology Overview

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



John Bunyan Design & Technology Overview

			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	<p>Electrical systems: More complex circuits and switches How can I design and use electrical circuits and switches to control a product?</p> <p>Design, make and evaluate a product using more complex electrical circuits and control systems with inputs and outputs.</p>	<p>Textiles: Combining different fabric shapes. How can I design and make a functional and appealing garment?</p> <p>Design, make and evaluate a functional textile product using a range of sewing, joining and finishing techniques for a specific user.</p>	<p>Food: Celebrating culture and seasonality How can I create a dish using seasonal ingredients that reflects culture?</p> <p>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.</p>