Lauren Griffiths
Head of Humanities

Design Technology LTP

Whittington CE Primary School

KEY STAGE 1

Year	Autumn	Spring	Summer
EYFS	• **Exploration:** Children explore the natural world around them, using their senses to gather information and understand how things work. • **Communication:** They express their ideas and thoughts in well-formed sentences, using vocabulary specific to tools and materials. • **Manipulation:** Children develop manipulation and control skills, using a range of appropriate resources to build independency. • **Expression:** They use their core muscle strength to achieve good posture and use their creativity to express themselves through art and design. • **Technology Knowledge:** They learn about the properties of materials and how to use them effectively, including sorting and storing materials based on their properties.		
1	Moving Pictures Mechanisms: Sliders & Levers ♣ explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.	Lunchboxes Structure ♣ build structures, exploring how they can be made stronger, stiffer and more stable	Playground Equipment Frame structure ♣ build structures, exploring how they can be made stronger, stiffer and more stable
2	Moving vehicles Mechanisms: Wheels and axles ♣ explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.	Salads Cooking & nutrition ♣ use the basic principles of a healthy and varied diet to prepare dishes ♣ understand where food comes from.	Sewing purses Textiles: Joining techniques ♣ select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities

Lauren Griffiths
Head of Humanities

KEY STAGE 2

Year	Autumn	Spring	Summer
3	Packaging Shell structure ♣ apply their understanding of how to strengthen, stiffen and reinforce more complex structures	Pneumatic moving toys Mechanisms – pneumatic toys ♣ understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]	Savoury Cooking Cooking & Nutrition ♣ 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.
4	Bridges Structure ♣ apply their understanding of how to strengthen, stiffen and reinforce more complex structures	Simple programming and control: data loggers Electrical systems ♣ understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]	Interactive Books Mechanisms -Levers & Linkages ♣ understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]
5	Sewing Christmas decorations Textiles: Joining techniques ♣ select from and use a wider range of materials and components, including	Moving toys Mechanisms: Cams	CAD structures – railway Digital World

Lauren Griffiths
Head of Humanities

	construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities	♣ understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]	♣ apply their understanding of computing to program, monitor and control their products.
6	Anderson Shelters Structure ♣ apply their understanding of how to strengthen, stiffen and reinforce more complex structures	Pulleys & Gears: electrical vehicles Mechanisms: Pulleys & gears ♣ understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]	Systems and Control: sensory alarms Electrical systems ♣ understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]