

Long Term Overview: **Key Stage 1**

Year B 2021-2022	Mechanics	Structure	Food Technology
Rationale	Problem Solving Creativity Resilience	Creativity Problem Solving Aspirations Resilience	Healthy Lifestyles Wellbeing Life Skills Aspirations
Focus	Children experiment with sliders before planning and making three pages of a moving story book, based on a familiar story. They will draw the page backgrounds, make the moving parts and assemble it.	Using the tale of Goldilocks and the Three Bears as inspiration, children help poor Baby Bear by making him a brand new chair. When designing the chair, they consider his needs and what he likes and explore ways of building it so that it is a strong and stable structure and doesn't break again!	Children handle and explore fruits and vegetables and learn how to identify which category they fall into, before undertaking taste testing to establish their chosen ingredients for the smoothie they will make a design packaging for
Focus Designer/ World Wise	Pop-Up House of Inventions: Hundreds of Fabulous Facts about Your Home Encourage children to recognise everything we use has been designed and made through the use of a moving story book.	Eileen Gray <u>Furniture Designer</u> (Ireland 1878 – 1976)	Joe Wicks <u>Chef and Nutritionist</u> (England)
Extra Opportunities	Christmas Card: Explore existing products as part of DT cycle to inspire designs.		

Year A 2020-2021	Mechanics	Textiles	Food Technology
Rationale	Problem Solving Creativity Aspirations	Creativity Problem Solving Aspirations Resilience	Healthy Lifestyles Wellbeing Life Skills
Focus	In this topic, children are given the opportunity to problem solve and experiment with mechanisms to help them develop a clear understanding of how they work. The children assume the role of a mechanic and troubleshoot why certain wheels don't rotate. They then demonstrate their learning by designing and building their own moving trains just like the trains on our jumpers.	Children are given their first opportunity to sew in this topic. By making their own template, children can ensure that their pieces of fabric will be exactly the right size. With their fabric cut out, pupils use a simple running stitch to join two pieces together before decorating the front of it, according to their designs. This is an opportunity to explore other ways of joining fabrics.	Through their exploration of what makes a balanced diet, children taste test food combinations of different food groups. They will also aim to make a wrap that includes a healthy mix of protein, vegetables and dairy, and learn about the term 'hidden sugars'.
What sort of job could I get if I develop these skills?	John Boyd Dunlop <u>Inventor</u> - the air tyre (Scotland- 1800)	Orla Kiely <u>Textiles Designer</u> (England)	Joe Wicks <u>Chef and Nutritionist</u> (England)
Extra Opportunities	Christmas Card: Incorporate a mechanics element (revisit sliders)		

Long Term Overview: **Lower Key Stage 2**

Year B 2020-2021	Mechanics	Textiles	Food Technology
Rationale	Problem Solving Creativity Aspirations	Creativity Problem Solving Aspirations Resilience	Healthy Lifestyles Wellbeing Life Skills Culture
Focus	After learning the terms; pivot, lever and linkage , children set to designing a monster that will move using a linkage mechanism. After practising making linkages of different types and varying the materials they use, children can also bring their monsters to life with the gift of movement.	Design a pouch. Having already learnt the basics of sewing and decorating fabric in earlier years, this topic offers extra challenge by introducing two new skills to add to their repertoire: cross stitch and appliqué . After learning these techniques, they apply their knowledge to the design, decoration and assembly of their very own cushions	Children discover when and where fruits and vegetables are grown and also learn about seasonality in the UK. They will also learn about the relationship between the colour of fruits and vegetables and their health benefits by making three dishes using seasonal ingredients.
What sort of job could I get if I develop these skills?	Joshua Lee <u>Animatronic Designer</u> (England)	Cath Kidston <u>Textile designer</u> (England Born 1958)	Have we always had such a range of foods available in the UK?
Extra Opportunities	Christmas Card: Incorporate a textiles element (revisit running stitch)		

Year A 2021-2022	Structures	Textiles	Food Technology
Rationale	Problem Solving Creativity Aspirations	Creativity Problem Solving Aspirations Resilience	Healthy Lifestyles Wellbeing Life Skills Financial awareness
Focus	Learning about the features of a castle, children design and make one of their own. They will also be using configurations of handmade nets and recycled materials to make towers and turrets and constructing a base to secure them.	Creating their own stuffed toy is a really fun project as children can bring their drawings to life and can make them as challenging or as simple as they choose. Not only does this topic give them the chance to apply skills they have learned in previous topics, it also introduces them to a new stitch – blanket stitch	Children work in groups to adapt a simple recipe , to create the tastiest biscuit. While making they will also ensure that their creation comes within the given budget of overheads and costs of ingredients.
What sort of job could I get if I develop these skills?	Antonio Gaudi <u>Architect</u> (Spain 1852 – 1926)	Richard Steiff <u>Textiles Inventor</u> of the teddy bear (Germany 1877 – 1939)	
Extra Opportunities	Christmas Card: Incorporate mechanics element (revisit levers)		

Long Term Overview: **Upper Key Stage 2**

YEAR 5	Mechanic	Electronic	Food Technology
Rationale	Problem solving Aspiration Resilience Creativity	Aspiration Our locality Creativity Problem Solving	Healthy Lifestyles Wellbeing Life Skills Ethics
Focus	Using woodworking materials and skills, pupils construct a window display using an automata mechanism; measuring and cutting their materials, assembling the frame, choosing cams, designing the characters that sit on the followers and also finishing with a foreground and background.	Children explore how circuits can be adapted to suit different purposes. They will explore flat circuits using graphite or tape. They also design and create light-up greetings cards in accordance with their own design criteria.	Focusing on nutrition, children research and modify a traditional Bolognese sauce recipe to make it healthier. They will cook their new and improved versions, making appropriate packaging and also learn about the ethical considerations of farming cattle.
What sort of job could I get if I develop these skills?	Marcel Breuer <u>Carpentry Designer</u> (Hungary 1902 – 1981)	Thomas Edison <u>Electrical Inventor</u> 1847-1931	Jamie Oliver <u>Chef and Nutritionist</u> (England)
Extra Opportunities	Christmas Card: Incorporate a textiles element (revisit cross stitch) Upper KS2 Textiles Focus Week SUM 2- Fashion show (upcycling)- revisiting previous skills.		

YEAR 6	Structures	Electronic	Food Technology
Rationale	Our locality- Sankey Viaduct Cultural heritage. Problem solving Aspiration	Aspiration Problem Solving Creativity Resilience	Healthy Lifestyles Life Skills Aspiration Well Being Financial awareness
Focus	This topic develops children’s understanding of secure structures and introduces them to measuring, sawing and joining wood accurately . After learning about different types of bridges and also exploring how the strength of structures can be affected by the shapes used. Children create their own wooden bridge and test its durability.	Using their understanding of electrical systems and design, pupils are challenged with designing and creating a steady hand game. Pupils will use nets to create their bases and their knowledge of electrical circuits to build a circuit with a buzzer which closes when the handle makes contact with the wire frame	Working in groups, children research and prepare a three-course meal taught as a rotational activity over three lessons. They will taste-test and score their food and when they aren’t cooking, they will research the journey of their main ingredient from ‘farm to fork’ or write a favourite recipe to include in a class cookbook.
What sort of job could I get if I develop these skills?	William Allcard <u>Engineer</u> (England 1800 Sankey Viaduct design) <i>Pre learn- George Stephenson History KS1</i>	Martin Cooper <u>Inventor-</u> the first mobile phone. (America- born 1928)	Jamie Oliver <u>Chef and Nutritionist</u> (England)
Extra Opportunities	Christmas Card: Overlearning- Incorporate a textiles element (revisit applique) Upper KS2 Textiles Focus Week SUM 2- - Fashion show (upcycling)- revisiting previous skills.		