

	Year 7 Design and Technology Curriculum Overview		
	Students in Year 7 will experience 3 areas of Design and Technology (Food/product Design and textiles) via 3 rotations during the year.		
	Food	Textiles	Product design
BIG Q Content (max 5)	How can I use ingredients, equipment and cooking techniques safely and creatively to prepare and make healthy food products? - Understand and confidently discuss healthy eating, nutrients and the functions and sources of protein, carbohydrates, fats, vitamins and minerals. - Identify and safely use food room equipment and tools, including knives, ovens and measuring equipment. - Apply key practical cooking skills accurately and safely, including measuring, preparing, kneading, shaping and baking. - Follow recipes and practical demonstrations carefully to prepare and evaluate a range of food products. - Develop confidence and independence by designing, making and improving healthy food choices using practical knowledge and skills.	How can I use fabrics, fibres, sewing and Kantha techniques safely and creatively to design and make a patterned textile wall hanging? - Understand and confidently discuss sustainability in textiles, including different fabrics and fibres. - Apply basic hand and machine sewing techniques creatively and safely. - Explore Kantha textiles and artist inspiration to develop design ideas. - Create and visualise a linear pattern design using practical textile skills. - Design and make a personalised Kantha fabric patch for a wall hanging.	How can I use woods, tools, machinery and workshop techniques safely and creatively to design and make a wooden truck? - Understand and confidently discuss different types of wood, including hardwoods, softwoods and manufactured boards, their properties, sources and sustainability issues. - Identify and safely use workshop hand tools and machinery, including saws, files, sandpaper, disc sanders and pillar drills. - Apply practical workshop techniques accurately and safely to construct a 3D wooden truck. - Record and evaluate the stages of practical work clearly through drawings, notes and a production plan. - Design, adapt and improve a wooden truck using creative ideas and increasing confidence with tools, materials and processes.
Vocabulary (max 10) Please log into MAPPER to support your child to learn these words	- Nutrition - Protein - Carbohydrate - Fat - Vitamins - Minerals - Kneading - Measurement - Baking - Health and Safety	- Sustainability - Kantha - Fibres - Design - Embroidery - Natural - Synthetic - Recycled - Material properties - Applique	- Hardwood - Softwood - Manufactured Board - Tenon Saw - Coping Saw - Pillar Drill - Disc Sander - Health and Safety - Sustainability - Production Plan
Catholic Link	Stewardship of God's Creation Students learn about healthy eating, reducing waste, and making responsible choices about ingredients and food preparation. This encourages respect for the resources God has provided and promotes care for ourselves and others through healthy lifestyles.	Stewardship of God's Creation — caring for resources, valuing creativity, and respecting the work of others through thoughtful design and making. - Human Dignity – valuing handmade work and cultural traditions like Kantha. - Solidarity – appreciating textile traditions and artists from different cultures. - Care for Creation – using fabrics responsibly and reducing waste.	Dignity of Work Using tools safely, developing practical skills, and taking pride in craftsmanship reflects respect for work and the talents God has given us.
Careers Link	Links to careers in Catering, Hospitality, Nutrition and Food Science through cooking, food preparation and healthy eating. Gatsby Benchmarks Benchmark 4: Linking cooking and nutrition skills to real careers. Benchmark 7: Introduction to pathways in Food, Catering and Health industries.	Careers Link (Gatsby Benchmark 4 – Linking Curriculum Learning to Careers): Students apply creative design, sewing and problem-solving skills used in careers and industries such as fashion, textile design, costume production and interior design.	Links to careers in Product Design, Carpentry, Construction and Engineering through the use of tools, materials and practical making skills. Gatsby Benchmarks Benchmark 4: Linking practical workshop skills to real careers. Benchmark 7: Introduction to pathways in Design, Engineering and Construction.
Ways to enrich the year 7 curriculum at home...(max 3)			
Repurpose old clothing or fabric scraps at home to create a small stitched design, exploring sustainability through reusing and reducing textile waste.			