Year 7 Design & Technology 2021 2022					
Carousel 1	Carousel 2	Carousel 3	Carousel 4		
(Product Design)	(Engineering)	(Combined skills)	(Food and Nutrition)		
Project: Chocolate mould	Project: Novelty light	Project: Helicopter launcher	Projects Carrot & Coriander Soup, Apple Crumble, Pizza & Fajitas and moulded chocolates.		
Project focusPlastics: -Sources, categories & applications -Plastic processes: -Common processes and applications Packaging design and nets	Project focusElectronic components: -Common examples and applications	Project focusMovement and mechanisms: -Common examples and applications	Project focusWhat is a balanced diet? -An introduction to the Eatwell guidePersonal hygiene -How to clean correctly -Exploring the Eatwell guide -The importance of vitamins		
Additional topicsEnvironmental impact of plastics -Land fill -Recycling -Pollution -Reduce -Packaging life cycle -Transport -Disposal	Additional topicsSustainability and energy use -Energy production -Sustainable energy use	Additional topicsEvolution of toys/ play -Interaction vs electronic	Additional TopicsThe seasons, climate change and their impact on food sources -Exploring nutrients -Weighing and food preparation -Cross curricular, using products from other DT lessons (cookie cutter)		
Keywords:	Keywords:	Keywords:	Keywords:		
-Extraction	-Filament lamp	-Motion	-Seasons		
-Crude oil	-Light Emitting Diode	-Rotary	-Rubbing in method		
-Chemical processing	-Switch (Rocker, slide push	-Linear	-Vitamins		
-Thermoplastics	button)	-Reciprocating	-Hygiene		
-Thermosets	· · · · · · · · · · · · · · · · · · ·	_			
	-Motor -Resistor	-Oscillating -Mechanisms	-Safety		
-Injection moulding -Vacuum forming	-Printed Circuit Board	-Gears	-Dairy -Whisking		
-3D Printing	-Printed Circuit Board				
· ·		-Pulleys			
-Blow moulding		-Chain and sprocket -Cams	-Function		
Health and Safety: Ba	Health & Safety: Getting to know the food room and hazard spotting and				
	preventing.				
-Personal Protective Equipme	Kovayords:				
-Apron -Safety goggles	Keywords:				
	-Apron				
-Visor/ face shield	-handwashing				
-Machine guard	-Hair tied back				
-Safety zone			-Hot water		
-Hazard			-Washing up liquid		
-Precaution			-Drying		
-Signs and symbols					

Year 8 Design & Technology 2021 2022					
Carousel 2	Carousel 3	Carousel 4			
(Engineering)	(Combined skills)	(Food and Nutrition)			
Project: USB LED light	Project: Cube calendar	Projects Mac & Cheese, Turkey Burgers, Cheesecake, Banana Bread			
Project focusCircuit design: -Component symbols & circuit diagrams Power sources	Project focusWoods and timber: -Sources, categories and applications	Project focusWhat is the function of food? -Exploring the benefits of each food groupSauce making -Chilling foods to set -Cooking meat products thoroughly			
Additional topicsEnvironmental impact of batteries -Sustainable power sources -Recycling -Recharging -Solar/wind-up	Additional topicsEnvironmental impact of wood production -Deforestation -Sustainable forestry (FSC)	Additional TopicsDifferent functions of foods in the body -Cross curricular, using products from other DT lessons (chocolate mould)			
Keywords:	Keywords:	Keywords:			
-Inputs (Switch, sensor etc)	-Forestry	-Fat			
-Output (Lamp, LED, motor etc)	-Deforestation (FSC)	-Protein			
-Power sources (USB, battery, cell,	-Hardwood	-Starchy Carbohydrates			
rechargeable etc.)	-Softwood	-Sugary			
,	-Coniferous	-Slow release			
	-Deciduous	-Dairy			
	-Manufactured board	-Fruits			
	-Pine -Oak/Teak/Mahogany MDF/Chipboard/MDF	-Food poisoning			
Health and Safet	Health & Safety: Food hygiene				
Specific machine	. ,,				
Keywords: -Types of PPE -Hazard identification -Precautions	<ul> <li>-4 C;s (cooking, chilling, cleaning and cross contamination)</li> <li>-Hand washing</li> <li>-cleaning equipment</li> <li>-Avoiding the danger zone</li> </ul>				
-Specific machine safety					

Year 9 Design & Technology 2021 2022					
Carousel 1 (Product Design)	Carousel 2 (Engineering)	Carousel 3 (Mixed materials)	Carousel 4 (Food and Nutrition)		
Project: Design styles clock	Project: Pewter casting	Project: Sweet dispenser	Projects Breakfast Muffins, Chicken Stir-Fry, Sausage rolls and Potato Wedges.		
Project focusHistory of design: -Design timeline, movements and product examples	Project focusMetals: -Sources, categories and applications	Project focusSustainable design: -Environmental impact, The 6Rs and sustainability	Project focusThe nutritional value of food -The health benefits of a balanced dietThe role of nutrients in our bodiesdairy alternatives -function of carbohydrates on our bodies		
Additional topicsEnvironmental impact of mining -Recycling metals -Energy use -Land use -Pollution -Recycling	Additional topicsProduct evolution -History of design -Arts and crafts -Industrial revolution -Mass production	Additional topicsSustainable product design -Impact of recycling -Pollution -Up-cycling	Additional topics: -Finishing techniques -Food risks -Allergies -Consuming too much or not enough in diets.		
Keywords: -Design movement -Arts and crafts/Art Nouveau -Art Deco -Streamlining -Modernism/Memphis	Keywords: -Mining -Ferrous (Iron, steel) -Non-Ferrous (Aluminium, copper, gold, tin) -Alloys (Stainless steel, brass)	Keywords: -Up-cycling -Sustainable -Single use -Land fill -Recycling	Keywords: -Macro and micro nutrients -complex proteins -Pescatarians -vegetarians -vegans -saturated and unsaturated		
Health and S  Keywords: -Risk assessment -Hazzard identification -Likelihood -Severity -Control measure	Health and safety: -Knowing the difference between cooking at home, in the food room and a catering industrycutting skills -Hazzard identification				