

Curriculum Plan: Design Technology

	Autumn Term	Spring Term	Summer Term			
	Rotation 1 DT	Rotation 2 DT	Rotation 1 FOOD		Rotation 2 FOOD	
Year 7	Health & Safety / Wind	Health & Safety/	Food & Nutrition		Food & Nutrition	
	chime	Jewellery				
	Introduction to Health &	Introduction to Health &	1 st half term	2 nd half term	1 st half term	2 nd half term
	Safety, workshop rules	Safety, workshop rules	Introduction to	Cereals: Primary	Hygiene and safety	Food styling and
	and contract.	and contract.	hygiene and	processing of	recap: Key terms	flavours: Examining
	Design: Use specifications	Design: Research and	safety:	oats and rice.	and the	how foods are
	and working drawings to	study different cultures,	Expectations.	Seasonal Foods:	definitions.	flavoured and
	guide design ideas	designers and design	Hazards &	The British	Practical skills:	presented from
	Make: Select and use	movements with a focus	equipment. The	cuisine using	Safe use of the	different cultures.
	specialist tools –	on finding design	4C's.	apples.	microwave.	Religion and food:
	Hacksaws, files, coping	inspiration from the	Practical skills:	Designing a	Grating.	Types and reasons.
	saws, abra-files, rules,	natural world.	Bridge hold and	healthy cereal	Nutrition: Fibre	Poultry project:
	centre punch, engineers'	Communicate ideas using	claw grip	bar: Application	and water. The	Research and
	vice	a range of initial sketches	methods. Use of	of healthy eating	importance and	temperature
	Project looks at	followed by more	the grill, hob, oven	and adapting	the sources.	control and how to
	familiarising students with	detailed annotated	and assembling	dishes to make	Food science:	prevent food
	tools and equipment not	drawings. Drawing skills	techniques.	them healthier.	Yeast, a biological	poisoning in meat.
	used at primary school.	will include accuracy,	Healthy Eating:	Food	raising agent.	Allergens and food
	Pillar drill- Clamping,	correct use of equipment	The Eatwell guide	provenance:	Experiment with	intolerances:
	drilling jigs.	and orthographic	and the	Where food	types of yeast.	Coeliacs. Lactose.
	Metal lathe (with	projection.	government's	comes from and	Dairy: Yogurt	Nut allergies.
	supervision)	Identify user needs,	eight healthy	food waste. How	analysis and	Dietary
	Accuracy of marking out.	considering safety,	eating	to use leftover	tasting. Milk -	requirements and
	Properties of wood metal	comfort and preference.	recommendations.	ingredients to	Pasteurisation.	the alternatives.
	and plastics.	Develop Specifications	Introduction to	make nutritional	Evaluation types:	
	Evaluation: against a	ensuring accuracy of their	nutrition.	dishes.	Sensory evaluation	
	specification, taking into	jewellery outcome.	Commodities:		and the differences	
	account the views of	Understanding the	Fruit and		between a	
	others.	purpose of a design brief.	vegetables.		preference and	
		Make: Select from	Classification.		hedonic tests.	
		specialist tools - coping	Seasonal and			



					200	
		saw, needle files,	benefits of fruits			
		jewellers peg, pillar drill	and vegetables.			
		Project looks at				
		familiarising students				
		with tools and equipment				
		not used at primary				
		school, making cross				
		curricular links and				
		fostering a connection to				
		industry.				
		Properties of				
		manufactured and natural				
		wood				
		Evaluate: Against a				
		specification, taking into				
		account the views of				
		others.				
		Technical knowledge: use				
		of jewellery specific tools,				
		development of subject				
		specific vocabulary and an				
		understanding of				
		production scale.				
Year 8	Health & Safety / Acrylic	Health & Safety 3D	Food & N	lutrition	Food &	Nutrition
	Clock	Room/Architectural				
		model				
	Recap Health & Safety	Recap Health & Safety	Hygiene and	Recap- Eat well	Special diets:	Labelling: Traffic
	requirements - including	requirements - including	safety: Recap food	Guide/ healthy	Diabetes, stroke;	light labelling
	workshop rules and	workshop rules and	hygiene and	eating Seasonal	CHD etc	Raising Agents:
	contract.	contract.	introduction of	cooking:	Food choices:	Mechanical and
	Design: Research and	Design: drawing a room	where bacteria	Importance of	Factors affecting	Chemical.
	exploration – looking at	plan and isometric room	come from.	using locally	food choices	Pastry Making:
	the work of	design inspired by their	Nutrition: Macro	produced foods.	Food waste:	types, shortening
	designers/design eras.	own room	and Micro	Food	exploring Food	and Lamination.
	(Memphis/Alessi)		Nutrients	Provenance:	waste and its	



		1	1	1		HOOL
	Communicate ideas using a range of initial sketches followed by more detailed annotated drawings. Make: Select and use specialist tools and equipment, techniques and processes - Focus on accuracy and quality of finish. Industrial manufacturing techniques – Design development using traditional modelling and CAD - laser cutter. Evaluation: of traditional manufacturing techniques verses CAD CAM. Evaluation: against a specification, taking into account the views of others	Research and exploration – Pop Art aesthetic Make: exploration of card construction methods to create furniture. Project focus is to strengthen pupil accuracy and drawing skills, to ensure a solid foundation skill set. Evaluate: Against a specification, taking into account the views of others. Technical knowledge: Drawing in plan and isometric view. Paper and card construction techniques. Use of cutting tools.	Cereals: Wheat. primary and secondary processing Food science: Pasta making demonstration: Sauces and gelatinisation	International cuisines Food Science: Caramelisation. Evaluation: Planning and evaluation of signature dish.	effects on the environment. Cake making: methods adapting recipes for Healthy Eating	Sensory Analysis and evaluation: sensory Charts and descriptors. Food Storage: Ambient; chilling; freezing and drying Sugar: Processing; types and its impact on our health
Year 9	others	Health & Safety 3D Room/Architectural model	Food & N	lutrition	Food &	Nutrition
		Recap Health & Safety requirements - including workshop rules and contract. Design: drawing a room plan and isometric room design inspired by their own room Research and exploration – Pop Art aesthetic	Nutrition and Health Module: Recap on hygiene and safety: Healthy and safety contract. Macro Nutrients and Micro: Sources, functions and deficiencies.	Nutrition and Health: Diet related issues in teenagers Food provenance: Sustainability and the impact on the environment. Organic foods and genetically	Food Hygiene: Bacteria types and food poisoning. Foods from around the World: Catering for different cultural needs British Cuisine: Research traditional British	Food science experiments: Enzymic browning and dextrinization. Investigation task NEA- Mini food science project. Writing a hypothesis. Mini GCSE project. Researching.



	Make: exploration of card construction methods to create furniture. Project focus is to strengthen pupil accuracy and drawing skills, to ensure a solid foundation skill set. Evaluate: Against a specification, taking into account the views of others. Technical knowledge: drawing in plan and isometric view. Paper and card construction techniques. Use of cutting tools	Tots to Teens: Diet through life stages. Energy through life stages: BMI, energy balance Nutrition and Health: Case studies Cooking Methods and Heat transfer: Links to food science	modified. Food miles. Food choices and religion: Factors affecting food choices. Cooking for different occasions- Design and make Christmas cake/ Easter cooking.	foods and eating patterns. Great British bake- off challenge: Afternoon tea.	Evaluating and writing a time plan.
Year 10		Nutrition: Macronutrients and micronutrients. Sources. Functions. Deficiencies Diets: What a balanced diet is. Diet and health: Diabetes. Obesity. Rickets. Cardiovascular. Osteoporosis. Energy: Requirements for	Food science: Experiments – Gelatinisation. Coagulation. Dextrinisation. Emulsification. Caramelisation. Heat transfer: Reduction, radiation and convection. Microwave oven (Electromagnetic rays) Methods of heat transfer and	Food Spoilage and contamination: Factors affecting Food Choice. Functional and chemical properties of Food: Proteins; carbohydrates; fats and oils. Raising agents Sensory Evaluation: Using senses to evaluate food.	Factors affecting food choices: NEA 1 Mock: Food science investigation. Religion and culture. British and International cuisines. NEA 2 Mock: Research. Technical dishes. Final dishes. Evaluation. Food labelling and marketing.



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	BMR.	Cooking with	fat, methods.	
	Special d	liets in dry heat, wate	er.	
	society:	How cooking		
	Vegetari	ans – affects the		
	Vegans.	Lacto nutrients.		
	Lacto-ov	o.		
	Dietary			
	requiren	nents for		
	life stage	es.		
Year 11	Recap: K	nife skills Practical exan	n Food Safety	Revision of year 10
	and deco	oration/ NEA: Costing,	principles of food	Topics in
	garnishir	ng skills. Nutritional	Safety: Buying	preparation for the
	NEA 1:	analysis and	Food and Storing	theory Exam.
	Exam Bo	ard task Evaluation	Food.	
	Investiga	ation Task Food	Preparing cooking	
	NEA 2: F	ood Provenance:	and serving Food.	
	Preparat	ion, Environmenta	al	
	cooking	and impact and		
	Nutritior	n sustainability.		
		Processing an	d	
		production:		
		Food sources,		
		food and the		
		environment.		
		Food product	ion.	
		Technological		
		developments		

Design	
Make	
Evaluate	
Technical Knowledge	
Cooking & Nutrition	