

CURRICULUM MAP

TRANSITION STAGE: DESIGN & TECHNOLOGY									
YEAR 7	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2			
CONTENT	Desk Organiser			Prototype Fan					
SKILLS	Marking, measuring, cuttingKnowledge and understargPractical maths skills	ng practises using both hand a ng, drilling painting, joining, glu nding of materials, processes a nd using computer software to	ling and assembling and tools	 Practical maths skills Understanding how elect producing an effective ci Fault-finding circuits 	ting, drilling, painting, joining, gl tronic components can be com ircuit rove the efficiency, safety and s	bined together, thereby			

	TRANSITION STAGE: FOOD TECHNOLOGY								
YEAR 7	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2			
CONTENT	 Food hygiene and safety 1 - Food spoilage, Food poisoning: conditions for bacterial growth, how bacteria behave in the fridge, freezer and in the danger zone, Food hygiene and safety rules Food Origin- Where does food come from? How are they processed? Grown,caught or reared -carrots and eggs Healthy eating 1-What does the eatwell guide tell us? What are the five food groups? What is healthy eating? Macro/macronutrients functions and sources The importance of keeping hydrated, problems of dehydration Food label: information on a food label 			 Food hygiene and safety 1 - Food spoilage, Food poisoning: conditions for bacterial growth, how bacteria behave in the fridge, freezer and in the danger zone, Food hygiene and safety rules Food Origin- Where does food come from? How are they processed? Grown,caught or reared -carrots and eggs Healthy eating 1-What does the eatwell guide tell us? What are the five food groups? What is healthy eating? Macro/macronutrients functions and sources The importance of keeping hydrated, problems of dehydration Food label: information on a food label 					
SKILLS	 Cooking skills-rubbing Cooking methods: Bak Practical dishes: fruit/o 	couscous salad, fruit crumble, sco nake a chosen dish in 45 mins testing, browning,	ones, sandwiches,	 Cooking skills-rubbi Cooking methods: E Practical dishes: fru 	uit/couscous salad, fruit crumble, sco d make a chosen dish in 45 mins ory testing,				



FOUNDATION STAGE: DESIGN & TECHNOLOGY									
YEAR 8	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2			
CONTENT	Decorative Vase			Electronic Moisture Detecto	r				
SKILLS	 both hand and machine t Design analysis, modellir Marking, measuring, cutt Freehand drawing Working Drawing (elevati 	ng and presentation of ideas ing, drilling, painting joining, glu	iing and assembling	life changes in the enviroDeveloping skills of solde	ering a circuit to identify errors whic ic drawing techniques				

FOUNDATION STAGE: FOOD TECHNOLOGY									
YEAR 8	AUTUMN 1	AUTUMN 2	SPRING 1	SP	PRING 2	SUMMER 1	SUMMER 2		
CONTENT	them to avoid food co , know about some fo • Food Origin: Where do are sold in our shops	ontamination. Know where to bod poisoning bacteria oes food come from? How Beef/mi	o store each food in the kitchen are they processed before they functions and sources, recipe	th , l • F a • H	nem to avoid food co know about some f cood Origin: Where co re sold in our shops	ontamination. Know where to food poisoning bacteria does food come from? How s Beef/mi acro and micronutrients their	now the 4Cs and how to use o store each food in the kitchen are they processed before they functions and sources, recipe		
SKILLS		e making/tomato sauce, boi ato sauce with pasta, muffir	ling, baking ns,shortcrust pastry, potato	• P		e making/tomato sauce, boi nato sauce with pasta, muffir			
	 Food science: Aeratio 	-	Il be suitable for school dinner	• F	ood science: Aerati		l be suitable for school dinner gents		



Technology **CURRICULUM MAP**

	FOUNDATION STAGE: DESIGN & TECHNOLOGY								
YEAR 9	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2			
CONTENT	Product evaluation	Product modelling	Computer Aided Design (CAI Manufacture (CAM	D) & Computer Aided	Environmental clock				
SKILLS	 Research skills, collecting data, analysis 2D and 3D drawing, rendering Isometric drawings, orthographic drawings, presenting data by hand and CAD Presentational skills, layout, style and organisation 	 Developing ideas focusing on a design style Using data to inform design CAD/CAM Developing fluidity of design thinking Shaping, modelling using cardboard and modification to work, evaluation 	Research skills, working with a context, writing a brief Hand rendering 2D and 3D shapes Isometric drawing by hand and using CAD Presenting ideas graphically to maximise impact	 Researching design styles Developing design Construction and building skills Production of idea, using appropriate techniques 	 Group work, collaboration of ideas and research, eco-friendly design, sustainable design Material research Formulation of ideas Peer assessment and continuous evaluation 	 Exploded drawings, 3rd angle orthographic projection Planning manufacture Using photography as a medium to communicate thoughts and processes CAD CAM Sustainability 			



Technology CURRICULUM MAP

YEAR 9 AUTUMN 1 AUTUMN 2	ODDING 4		FOUNDATION STAGE: FOOD TECHNOLOGY									
	SPRING 1 S	PRING 2	SUMMER 1	SUMMER 2								
 Food hygiene and safety - pathogens, key food safety to Analysis and Critical Control Point (HACCP) Bread - ingredients, making process, functions of ingred Macro and macro nutrients - specific function, sources Seasonal Food: the benefits of using seasonal foods in a Life stages and nutrition/teenagers/nutritional needs at 	ents and deficiency cooking	Analysis and Critical Contr Bread - ingredients, making Macro and macro nutrients Seasonal Food: the benefit	pathogens, key food safety tem of Point (HACCP) g process, functions of ingredier s – specific function, sources ar s of using seasonal foods in co eenagers/nutritional needs at d	nts nd deficiency oking								
Cooking skills: rolling out, combining, mixing, kneading, Cooking methods- baking, boiling, sauce making Food science- Fermentation, dextrinization, gelatinisation Practical dishes: Bread, pizza, macaroni cheese, fruit flater of Group task: Plan and make a healthy dish from your chooking ingredients used in thickening spreparation /cooking methods	n, aeration n/swiss roll sen culture/country sauces, effects of	Cooking methods- baking, Food science- Fermentatio Practical dishes: Bread, piz Group task: Plan and make	n, dextrinization, gelatinisation, zza, macaroni cheese, fruit flan/ e a healthy dish from your chose gredients used in thickening sa	aeration /swiss roll en culture/country								



Technology

CURRICULUM MAP

			EXAMINA	ATION STAGE		
YEAR 10	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
CONTENT	Industrial design	Theory module	IKEA storage project		Disaster relief	Major project - Component 1
SKILLS	Identifying design opportunities from an open contextual scenario Consideration of client and target markets Exploring ideas using a wide variety of graphical techniques including CAD Consideration of working properties of materials.	 Production planning Scales of production Products in society Forms of energy and generation - renewable energy Systems, levers and motion Automation in industry Modern, smart and composite materials Sustainability and the environment Obsolescence and design for maintenance Material properties Quality control and assurance. 	Contextual design brief, offering both stretch and challenge Working in teams Using collaboration in a real world environment Intensive / focused on using CAD and CAM Precision measurement / tolerance to .001mm Sustainability, 6R's Consideration of appropriate materials Joint drawing Making of jigs Commercial use of machines in applying finishes	 CAD and CAM to manufacture products Group work in completing the making of the products Testing and evaluation 	 Packing and distribution Understand that designing and making reflect and influence cultures and societies Understand the commercial implications of manufacturing in quantity and the effects of introducing new technologies 	 Design Context Design Brief Task Analysis Preliminary Research. Product Analysis Questionnaire Client Profile and Target Market Design Criteria/Specification Further Research: Materials / NET / Collecting and Analysing Data



Technology

CURRICULUM MAP

			EXAMIN	ATION STAGE		
YEAR 11	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
CONTENT	Major project - Component 1	Component 3		Component 4	Written Exam	
SKILLS	 Work of others - 3-point reference (architect, designer and design movement) Design ideas x 8 per reference category Design ideas analysis against specification Modelling (2D modelling only) Clear annotation of ideas Linked to specification points Developed Ideas - 3D modelled using cardboard or other soft materials Clear stages of development becoming more sophisticated towards completion Sustainability, 6 R's. 	 Size, construction and material properties identified Plan of making manufacturing specification or diary Working drawing with dimensions/exploded or sectional drawings Cutting List Design Realisation and manufacturing 	 Photographs of each part being developed / made Design realisation and manufacturing Ongoing modification Review 	 Quality control / assurance Testing against the specification Photographs of the final product in use Design Modification / improvements 	Theory knowledge, skills, processes and techniques, materials and properties covered Design based questions considered	