## Hope Valley College Curriculum

## Design & Technology – Key Stage 3 (Years 7, 8 and 9)



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							St	udents rot	ate around	d the techi	nology are	eas thro	ughout the	year				C	horus Educa	tion Trust	
7		DOT 4	MOODY		DOT	DOT FLECTBONIC NICHT HOUT			FOOD - NUTRITION & FOOD: BASIC TEXTILES - HANDSTITCHED FELT								SUSTAI	SUSTAINABLE DESIGN - RECYCLED			
	D&T - WOODY				D&T - ELECTRONIC NIGHT LIGHT			SKILLS, H&S and Diet					MONSTER				ITEM				
	RESEARCH	DESIGN	MAKE	ANALYSE / EVALUATE	RESEARCH	DESIGN	MAKE	ANALYSE / EVALUATE	RESEARCH		MAKE	ANALYS	SE RESEARCH	DESIGN	MAKE	EVALUATE	RESEARCH	EXPERIMENT / DESIGN	MAKE	EVALUATE	
		Design strategies, 2D and 3D sketching rendering	, A toy woody: Wood joints, cutting, finishing, drilling	Product evaluation	Create specification and look into why we are designing product. What resistors are and where to use them	Specification creates and 3-4-5 Design ideas, CAD/CAM, Isosketch	Night light; Soldering, laser cutting, assemb		Basic Knife Skills & Basic Cooking skills	Use of Equipment	Health, Hygiene & Safety	Eatwell Guide Introduction nutrition	n to what makes a	using rendering and labelled with technical information; stitches,	Felt Monster	Analyse design brief by highlighting keywords and discussing what it is asking for. Evaluate final monster using +/-'s	Create; moodboard for inspiration of recycled items (ideas and t designers), spider diagram showing what they have available to them to recycle, Learn about the 6 R's	3 Design ideas created, coloured using rendering and labelled with technical information.  Begin experiments to determine if designs are possible.	Recycled iten Find out who what can supp them in makin their item (teachers, technicians, family, youtul etc)	/ brief by ort highlighting ng keywords and discussing what it is asking for. Evaluate final	
8	D&T – WOODEN ROBOTIC TOY				ENGI	ENGINEERING - METAL INSECT				FOOD: EXPLORING NUTRITION & FOOD: ONE POT DISHES				TEXTILES - KANDINSKY CUSHIONS				SUSTAINABLE DESIGN – BOARD GAME			
	RESEARCH	DESIGN	MAKE	ANALYSE	RESEARCH	DESIGN	MAKE	ANALYSE / EVALUATE	MAKE	RESEARCH		ANALYS	SE RESEARCH	DESIGN	MAKE	ANALYSE / EVALUATE	RESEARCH	DESIGN	MAKE	ANALYSE / EVALUATE	
	Product Analysis: ACCESSFM	lso-sketch, and tinker card	Laser cutting, wooden permanent and temporary joints, veneers, CAD/CAM	Product evaluation	Product Analysis ACCESSFM	Foam : modelling, Design ideas, 2 elevations	<b>Insect:</b> Metal processes, brazin	Product g, evaluation	Use of commodities in practical dishes	Factors affecting food choice	Energy & Micro Micro Nutrients			responding to music. Peer asses and then create	Cushion: Learn how to use a sewing machine and surface decoration to create a Kandinsky inspired cushion	discussing what i is asking for. Create step by	on those that are sustainable and e environmentally	can be used by	t Travel board game used by families in as sustainable wa as possible.	keywords and	
	FOOD					TEXTILES				ENGINEERING				ENGINEERING				SUSTAINABILITY			
9	EXPLORING NUTRITION & FOOD: COMPLEX MAINS & SIDES, FOO CHOICE AND SPECIAL DIETARY NEEDS					PROTOTABLE FOR MASS MARKET			Engineering: Survival Tool				D&T: Lighting				Sustainability: Food Technology				
	Principles of home baking; pastries, bread and cakes. Complex main meals & side accompanimen s	Factors affecting for choice	od Allergies & Intolerance	and IVIIC	board of pattern market of products Products Tests / s	th: Mood & M African has. Mass customer filling. uction telections. O1) en The	RICAN HAND RMER. Design Make: Design African ndwarmers, te templates. ble decorative niques: batik, free hand machine mbroidery, ermochromic ts then make.	Step by step and Evaluate (AO3&AO4)	ACCESS FM Design ideas alternative functions, Autodesk Inve or Fusion 36	for machine including and mil	tools lathe ling CAD	l product tion, test of onality and use.	Product design, including application of CAD	Practical: make a LED light	Final product evaluation, test functionality ar use.	of food; availa	n the ental choose ability, ation, les, ods & equipn ods & and time	se 2 to e for life Produce a ping & stag pent list	e two dishes. utritionally able for life es set out in ef given to utudents.	Analyse brief and explain what will need to be undertake to meet the brief. Evaluate the decision making and final dishes.	