

ASSESSMENT OBJECTIVES	SUBJECT AREAS	PD1	PD2	F&N	TX	VC	PD	F&N	TX	VC	MT	PD	F&N	TX
AO1 Identify, investigate and outline design possibilities to address the needs and wants of the context.	RESEARCH & INVESTIGATION	•	•	•	•	•	•	•	•	•	•	•	•	•
	DESIGN SPECIFICATION	•	•	•	•	•	•	•	•	•	•	•	•	•
AO2 Design products that are fit for purpose, plan, test and model before manufacture of final product.	DESIGNING	•	•	•	•	•	•	•	•	•	•	•	•	•
	PLANNING & PROTOTYPE	•	•	•	•	•	•	•	•	•	•	•	•	•
AO3 Analyse, test and evaluate.	SOLVE DESIGN ISSUES	•	•	•	•	•	•	•	•	•	•	•	•	•
	TESTING & EVALUATION	•	•	•	•	•	•	•	•	•	•	•	•	•
AO4 Demonstrate understanding and apply knowledge and skills.	TECHNICAL PRINCIPALS IN DESIGNING & MAKING	•	•	•	•	•	•	•	•	•	•	•	•	•
	THEORETICAL UNDERSTANDING OF MATERIALS & PROPERTIES.	•	•	•	•	•	•	•	•	•	•	•	•	•
PRESENTATION														
LITERACY / QWC														

YEAR 7

First lesson of year 7 is completion of baseline test and treasure hunt tour of the department. Across the year, all students experience every aspect of DT and complete modules in all specialist areas through a range of projects. All of the projects allow for students to become familiar with the design process, from working to a brief and writing a specification to completing an evaluation and setting goals to improve / build on skills learnt.

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
	SEPT 5 TH – 20 TH OCT	OCT 31 ST – DEC 15 TH	JAN 3 RD – 9 TH FEB	19 TH FEB – 29 TH MAR	APRIL 17 TH – 25 TH MAY	4 TH JUNE – 23 RD JULY
MODULE 1	PD 1: MECHANICAL TOY					

	<ul style="list-style-type: none"> • Woods / design focus. • Product analysis research • Design specification • Skill development in basic workshop processes in hand tools & machines. • Classification of woods • CAMS, mechanisms & movements 		
MODULE 2		<p>PD 2: WIND CHIME</p> <ul style="list-style-type: none"> • Woods & polymers focus • Classification of polymers • Forming plastics & use of moulds • CAD / CAM designing • Possibility to add metals where time allows. • Completion of booklet, designing and making for brief. 	
MODULE 3		<p>FOOD: INTRO TO FOOD & NUTRITION</p> <ul style="list-style-type: none"> • Intro to working in kitchen / food • Basic skills including use of hob, oven and knives safely • Hygiene and cleanliness in the kitchen • Introduction to basic food production • Foods include savoury and sweet dishes from bread and pizza to scones and biscuits. • Completion of skills booklet alongside weekly practical's. 	
MODULE 4			<p>TEXTILES TECHNOLOGY: DRAWSTRING BAG</p> <ul style="list-style-type: none"> • Basic machine skills & driving test. • Simple construction, use of templates.

- Development of stencils – safe use of scalpels
- Safe use of irons
- Design skills, testing and evaluation
- Different Tie Dye techniques
- Sewing equipment theory.

YEAR 8

Students have the choice of 4 option choices, completing 3 in order of their preference. Option choices are listed and completed across the year roughly in accordance with each term.

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
	SEPT 5 TH – 20 TH OCT	OCT 31 ST – DEC 15 TH	JAN 3 RD – 9 TH FEB	19 TH FEB – 29 TH MAR	APRIL 17 TH – 25 TH MAY	4 TH JUNE – 23 RD JULY
	Option 1 VIS COM: LEGO MAN <ul style="list-style-type: none"> • Writing a brief & Specification • Higher level skills in woodwork using wider range of tools • Bore drilling using pillar drill • Design skills for product & packaging • Surface development (nets) • CAD simulation using Solidworks 	Option 2 PD: BOARD GAME <ul style="list-style-type: none"> • Writing brief & specification / user profile. • Technical drawing • Safe use of soldering • Electronics theory, symbols, resistors, circuits and PICs • Use of CAD to develop board game design 	Option 3 F&N: AFTERNOON TEA <ul style="list-style-type: none"> • Re-Introduce food rooms • Hygiene and cleanliness in the kitchen • Function of ingredients • Food investigations • Presentation of food • Afternoon Tea assessment F&N: MULTI CULTURAL <ul style="list-style-type: none"> • Plan, prepare and cook foods from across the globe – UK / Italy / Asia • Sauces, pasta, pastry • Completion of skills booklet alongside weekly practical's. 	Option 4 TEXTILES TECHNOLOGY: CUSHION <u>Decorative techniques</u> <ul style="list-style-type: none"> • Use of decorative techniques – applique, screen printing, sublimation printing, quilting, computer embroidery & laser etching • CAD: using Gimp to design • Writing a task analysis. Researching techniques, writing a specification and evaluating. <u>Construction Skills</u> <ul style="list-style-type: none"> • Accuracy of seam allowances for patchwork • Hemming and overlocking. 		
MODULE 1	CHOICE 1					

MODULE 2		CHOICE 2	
MODULE 3			CHOICE 3:

YEAR 9

Students choose favoured specialist areas in year 8, and study a total of 2 specialist areas over the entire year. In each module, students complete two projects. Eg: in Visual communication, students will complete a merchandise project, and travel pack project over half a year.

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
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VIS COMM / GRAPHICS	PROJECT 1: MERCHANDISE / EVENT <ul style="list-style-type: none"> • Writing own brief in relation to given context • Researching using multiple sources and evaluation of research to form ideas • Product analysis • Planning own event & theme for project according to brief • Use of a range of processes and CAD / CAM – photoshop (gimp), logo development, poster design, sublimation printing, laser cutter and laminating. • Drawing techniques and principles • Typography and layouts • Colour theory • Creating a range of items with a cohesion to design across a range of processes and materials. • Understanding materials – boards/ papers/ polymers 			PROJECT 2: TRAVEL PACK <ul style="list-style-type: none"> • Creation of brief for specific context and purpose • Researching using multiple sources and evaluation of findings to develop ideas for specific purpose • Product analysis • Planning project • Surface development, nets and appropriate design. • Conventions in packaging and packaging fit for purpose • Typography and layouts • Image manipulation • CAD – 2D design tools • Drawing methods – isometric, 2pt / 1pt perspective 		
MATERIALS TECH	PROJECT 1: PEWTER CASTING <ul style="list-style-type: none"> • Metals theory 			PROJECT 2: SWEET DISPENSER <ul style="list-style-type: none"> • Product design – use of plastics and woods to form a working product. 		

	<ul style="list-style-type: none"> • Writing a brief & specification • Product analysis • Design ideas • Use of CAD / CAM to create mould for pewter cast • Safe use of pewter & H&S in the workshop when moulding metals – risk assessments • Extension activities relating to project. 	<ul style="list-style-type: none"> • Writing a brief & specification • Product analysis • Research of customer, theme and existing products • Use of a wide range of tools and processes in workshop, from CAM to hand tools and machinery. • CAD 2D design • H&S in the workshop • Use of mechanisms
PRODUCT DESIGN	PROJECT 1: SPEAKER PROJECT <ul style="list-style-type: none"> • Component Knowledge including resistor colour codes, capacitors and LEDs • Research Target customer • Research theme • Research material • Design ideas – development and drawing skills. • Vacuum Forming • Gerbil Cutter • Soldering • Hot Glue Gun • 2DDT and Laser Cutter • Strip Heater 	PROJECT 2: MEDIA PLAYER <ul style="list-style-type: none"> • Component Knowledge –ICs, LEDs • Research Target customer • Research theme • Research material • Design ideas – development and drawing skills. • Programming skills Circuit Wiz and genie ICs
FOOD & NUTRITION	PROJECT 1: HEALTHY LIVING <ul style="list-style-type: none"> • The Eatwell Guide and Basic Nutrition • Risk assessments • Function of ingredients • Ready Steady Cook • Sensory Analysis • Food investigations – fats in pastry • Special dietary Requirements - • Plan, prepare and cook foods that demonstrate healthy living • Completion of skills booklet alongside weekly practical's. • Great Bideford Bake off – Technical and Showstopper Challenge • Celebrations Project – extended project and Practical work • 	
TEXTILES	PROJECT 1: SOFT TOY	PROJECT 2: BUSY BOOK

TECH	<ul style="list-style-type: none">• Using or adapting a pattern and understanding pattern terminology.• Working with knitted, non-woven and woven fabrics.• Product analysis.• Writing a specification for a specific user.• Hand embroidery and applique skills• Flowchart skills.	Decorative Techniques Technical Award Project. <ul style="list-style-type: none">• Understanding ways of decorating fabrics: Sublimation dyes, free machine embroidery, fabric paints, applique, trapunto, hand embroidery and Sublimation printing.• Making appropriate fabric choices.• Developing Creative design ideas for a child.• Tracking and evaluating techniques carried out.
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