Curriculum Map

Subject: DT: Approx 10 Week Rotation per project

and 8

	T	Ι	1	1
	Year 7		Year 8	
	Hang Up (Wood)	Photo Frame (Metal)	Lever Toy (MDF)	Card
Content- WHAT will be learned? What	Students are introduced to the world of	This time students are working with a new	In Year 8 students delve deeper into the	Working to a design brief again students
previous learning can be linked? Why	DT. They start with the very basics of	medium: metal.	world of design and technology. Students	research different types of printing
this order/ sequence ?	learning what a design brief is and as the	There is an initial knowledge starting point	explore mechanisms and how they work	including cad and cam, offset lithography
	wood unit progresses they use tools and	which is an information finding page.	and they create a lever toy to demonstrate	and flexography. This time students make
	equipment to transfer ideas on paper into	Students are asked to name metals and	their learning in practice. They model in	a list of user requirements to enhance
	a completed wooden product.	this is linked to the periodic table so that	card first to test the functionality of their	their thinking about their initial ideas.
	Students are encouraged to consider	students are linking metals to science and	toy then research temporary and	Literacy is explored as students consider
	environmental issues and look into	to the correct identification of metals on	permanent fixings.	the wording inside their cards and the
	sustainability which carries on into KS4.	the periodic table is logged.	Students then write their own design brief	impact that meaningful words can have.
	Students annotate and analyse their work	Students gain further experience using	incorporating theme and function, motion,	The 6R's are explored creating a specific
	and begin to make decisions about how	tools and equipment such as a jigsaw,	mechanism, size and materials to be used,	awareness of recycling and the impact this
	their product will be made in the planning	pillar drill and a disc sander.	tools, health and safety and any pre-	has on the environment and society,
	and recording of manufacture stages.	Students research design movements such	manufactured items or materials. From this	students are now designing with a global
	Once made the students test their product	as Art Deco, Art Nouveau and the Arts and	they then develop their initial ideas and	sense in mind where the future of our
	for suitability and function without being	Crafts Movement. Students complete	then enlarge the toy in order to make it.	world is being taken into account.
	destructive and record their end results.	design ideas using orthographic design,	This project links closely to KS4 where	Finally, students evaluate their work using
	Students carry out peer assessment and a	they plan their making, produce their	students follow the same processes to	technical terms which will carry forward
	final evaluation to determine what went	product and then carry out the testing.	create a product but in more detail.	into KS4.
	well and what could be improved.	Students carry out a final evaluation and	A breakdown of the course is as follows:	Design Situation
	A breakdown of the course is as follows:	peer assessment to analyse their product.	Deconstructing Existing Products	 Primary user and Brief
	Workshop safety	A breakdown of the course is as follows:	Survey of user needs	Existing Graphic Products
	Evaluating existing products	Research into metals and alloys	Eurther Wood Joints and Fittings	CAD/CAM and Printing Techniques
	Material Properties and Woods	Workshop safety	Tools and Equipment	Ilser Requirements
	Environmental Issues	 Tools and Components 	Finishes	Sketching
	Wood Joints	Mass production	Ilser requirements	
	Tools	Ouality Assurance	Eurther Isometric Joints	Tochnical Specification
	Ilser requirements	Health and Safety	Porspective drawing	Primary Secondary and Tortiary
	Orthographic Drawing	Environmental Issues	Orthographic Drawing	Prindry, Secondary and rentiary Populing
	Isometric Drawing	Lisor Poquiromonts	Orthographic Drawing Detailed Deparing	Recycling
	Isometric Drawing Tackwisel energification	Oser Requirements Orthographic Drawing	Detailed Planning	Rotary and Folding Mechanism
	recinical specification		Further tools and equipment	• Designing
	• CAD	Isometric Drawing	Iesting Evaluation and Peer	Oracy – a new project will be used (this
	• Planning	• CAD	Assessment	project will be replaced. Used with year9.
	 Evaluation and Peer Assessment 	Planning		Worked well(futurologist will be the
		Packaging		name of the project)
		Testing		(This project is currently being trialled)
		 Evaluation and peer assessment 		
Skills- What will be developed?	The basics are taught in Yr 7 as this project is a	Most students will not have had experience of	Skills are built on further to ensure students are	Students explore skills that are closely linked
	foundation project used to introduce DT.	using metals n Primary School so this project	getting a rounded experience. Skill levels vary	to GCSE Yr9 in order to create a seamless
	Drawing	will be new ground. The skills learnt and	for students and those that excel tend to	transition from KS3 into KS4.
	Designing Ability to identify types of yeard	explored nere are those that will be	consider taking this subject as an option as a	
	Ability to identify types of Wood	building on them in terms of accuracy and	UCSE. Mochanisms and Lovers	Liser requirements
	Ability to identify types of juillts			oser requirements

Year Group: 7

	Isometric crating	safe use. The use of tools can be quite	Modelling using card	Designing to a bi
	Making using:	vary. Drawing Designing Ability to identify types of metals Making using: Glue gun Jigsaw Disc sander	Marking out Designing Quality Assurance	V Fold mechanis Rotary card mec
Key 'How'/'Why' Questions- What	How a drawing develops into a design and a	How the process of "Wasting Metal"	How to use different classes of levels to	
What areas/themes/concepts will be explored?		How a drawing develops into a design and a final product.	produce a product.	
SEND - how will support be seen? Seating plans? Simplified questions?				
Assessment- What? Why?	 <u>Assessment for Learning:</u> Evaluation and Peer Assessment Self-Assessment of design booklet and made product 	 <u>Assessment for Learning:</u> Evaluation and Peer Assessment Self-Assessment of design booklet and made product 	 <u>Assessment for Learning:</u> Evaluation and Peer Assessment Self-Assessment of design booklet and made product 	Assess Evaluati Self-Ass and ma
What memory for learning skills will be required- modelling? Concrete answers? Retrieval?	Modelling How to use equipment safely and accurately.	Modelling How to use equipment safely and accurately.	Modelling How to use equipment safely and accurately.	Modelling How to use equi
Literacy - reading, extended accurate writing and oracy opportunities	Literacy (Reading) At KS3 the project booklets cover literacy with extended reading as part of the super curriculum.	Literacy (Reading) At KS3 the project booklets cover literacy with extended reading as part of the super curriculum.	Literacy (Reading) At KS3 the project booklets cover literacy with extended reading as part of the super curriculum.	Literacy At KS3 the proj with extended curriculum.
Numeracy/computing skills	Measuring accurately before cutting	Measuring accurately before cutting	Measuring accurately before cutting	Measuring accur
Character development	Health and safety in the workshop Teamwork Sharing Waiting your turn	Health and safety in the workshop Teamwork Sharing Waiting your turn	Health and safety in the workshop Teamwork Sharing Waiting your turn	Health and safet Teamwork Sharing Waiting your tur
Equality/Diversity opportunities	Equality and Diversity When designing for a target market group, user, and stakeholders it is key to consider all groups as part of the iterative design process. A good product will not just sell better and make more money it is culturally sensitive and morally right. Students will, at times, express themselves when designing whether it be flags from	Equality and Diversity When designing for a target market group, user, and stakeholders it is key to consider all groups as part of the iterative design process. A good product will not just sell better and make more money it is culturally sensitive and morally right. Students will, at times, express themselves when designing whether it be flags from	Equality and Diversity When designing for a target market group, user, and stakeholders it is key to consider all groups as part of the iterative design process. A good product will not just sell better and make more money it is culturally sensitive and morally right. Students will, at times, express themselves when designing whether it be flags from other countries, a group they	Equality When d market stakeho all grou design p not just money times, e designir

	Designing to a brief
	Internal stand mechanism
	V Fold mechanism
	Rotary card mechanism
of levels to	
earning:	Assessment for Learning:
er Assessment	 Evaluation and Peer Assessment
design hooklet	 Self-Assessment of design booklet
design bookiet	and made product
	Modelling
y and accurately.	How to use equipment safely and accurately.
	Literacy (Reading)
s cover literacy	At KS3 the project booklets cover literacy
part of the super	with extended reading as part of the super
	curriculum.
cutting	Measuring accurately before cutting
kshop	Health and safety in the workshop
F	Teamwork
	Sharing
	Waiting your turn
sity	Equality and Diversity
r a target market	When designing for a target
akeholders it is	market group, user, and
groups as part of	stakeholders it is key to consider
n process. A good	all groups as part of the iterative
st sell better and	design process. A good product will
it is culturally	not just sell better and make more
Ilv right Students	money it is culturally sensitive and
ass themselves	morally right Students will at
athar it ha flage	times express themselves when
ac a group thay	designing whether it he flags from
es, a group they	designing whether it be hags from

	other countries, a group they belong to or the LBGT+ rainbow. Staff appreciate the pupil's individuality.	other countries, a group they belong to or the LBGT+ rainbow. Staff appreciate the pupil's individuality.	belong to or the LBGT+ rainbow. Staff appreciate the pupil's individuality.	other countries, a group they belong to or the LBGT+ rainbow. Staff appreciate the pupil's individuality.
Homework/Independent learning	As set by teacher Teachers are currently developing quizzes.	As set by teacher Teachers are currently developing quizzes.	As set by teacher Teachers are currently developing quizzes.	As set by teacher Teachers are currently developing quizzes.
CIAG coverage/links				