KS3 Curriculum Overview Design Technology

16-week rotation for year 7 & 8 + 3 stand-alone lessons for rollover

<u>Year 7 – skills/ knowledge builder</u>

TERM 1	TOPIC: Materials & Processes	*Key Skills/Subject Links	*Career links & BV
Week 1	Baseline test for Milestone 1 or 2 data		
	Introduction to the workshop, Health and Safety	Key skills/ <i>Subject links –</i> Materials & Processes	Career links
Week 2	Sub topic – Plastic – How to become		Civil, chemical,
	accuracy	Design:	environmental or
	Investigation into categories of plastic,	Research, investigating and	mechanical engineer.
	properties/ characteristics	exploration of materials,	Furniture designer.
Week 3	Technical processes and safety when	properties, characteristics in	Industrial/product
	manufacturing with plastic	connection with the user	designer. Materials
Week 4	Manufacture of keyring	need.	engineer.
Week 5	Manufacture of keyring	Identifying and solving the	Product manager.
Week 6	Manufacture of keyring with skill	design brief given problems	Product/process
Mook 7	Sub topic – Wood – Working with in a	communicating how to re-	development scientist.
Week 7	sub topic – wood – working with in a	develop the product to	
	Investigation into categories of wood	be/perform better.	
	properties/ characteristics		
		Curriculum links	
		GCSE - NEA section A01	
		Engineering Component 1A	
TERM 2	TOPIC: materials & processes	Make:	British values
TERM 2 Week 1	TOPIC: materials & processes Technical processes and safety when	Make: Select from and demonstrate	British values
TERM 2 Week 1	TOPIC: materials & processes Technical processes and safety when manufacturing with wood	Make: Select from and demonstrate skill with specialist tools,	British values Mutual respect when
TERM 2 Week 1 Week 2	TOPIC: materials & processesTechnical processes and safety when manufacturing with woodManufacture joint 1 - butt joint	Make: Select from and demonstrate skill with specialist tools, techniques, processes,	British values Mutual respect when working in teams for the
TERM 2 Week 1 Week 2 Week 3	TOPIC: materials & processesTechnical processes and safety when manufacturing with woodManufacture joint 1 - butt jointManufacture joint 2 - dowel joint	Make: Select from and demonstrate skill with specialist tools, techniques, processes, equipment and machinery	British values Mutual respect when working in teams for the wood sub-topic.
TERM 2 Week 1 Week 2 Week 3 Week 4	TOPIC: materials & processesTechnical processes and safety when manufacturing with woodManufacture joint 1 - butt jointManufacture joint 2 - dowel jointManufacture joint - 3 finger joint	Make: Select from and demonstrate skill with specialist tools, techniques, processes, equipment and machinery precisely for each of the	British values Mutual respect when working in teams for the wood sub-topic.
TERM 2 Week 1 Week 2 Week 3 Week 4 Week 5	TOPIC: materials & processesTechnical processes and safety when manufacturing with woodManufacture joint 1 - butt jointManufacture joint 2 - dowel jointManufacture joint - 3 finger jointSub topic – Metal – safety with heat	Make: Select from and demonstrate skill with specialist tools, techniques, processes, equipment and machinery precisely for each of the categories of materials.	British values Mutual respect when working in teams for the wood sub-topic. Tolerance of different
TERM 2 Week 1 Week 2 Week 3 Week 4 Week 5	TOPIC: materials & processesTechnical processes and safety when manufacturing with woodManufacture joint 1 - butt jointManufacture joint 2 - dowel jointManufacture joint - 3 finger jointSub topic – Metal – safety with heat process	Make: Select from and demonstrate skill with specialist tools, techniques, processes, equipment and machinery precisely for each of the categories of materials.	British values Mutual respect when working in teams for the wood sub-topic. Tolerance of different faith and religion when
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		Curriculum links GCSE - NEA section A03 and extended writing within the exam Engineering Component all components must be evaluated to receive a Distinction	will respect the rules and regulations of the machinery, no student should use the machinery with training from staff.
TERM 3	TOPIC: materials & processes	Technical knowledge:	
Week 1	Manufacture of a pendant/keyring		
Week 2	Manufacture of a pendant/keyring	Understand developments in	
Week 3	End of assessment for Milestone 2 or 3	design and technology using	
	Evaluation of process & achievements	equipment to support	
Week 4	First week of new rotation	understanding.	
Week 5		Understand and use the	
Week 6		properties of materials and the performance of structural elements to achieve functioning solutions.	
		Curriculum links GCSE - NEA section A02 and the exam – applying the technical knowledge. Engineering Component 1 A, B, 2 B, C	
		Subject Links: Maths -measurements, scale, tessellation. English – creating step by step guides on a process, communication skills. Art – sketching techniques. PE – strength, students are physical and arm strength can be demanding with in the manufacture stage.	
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TERM 4			
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TERM 5	TOPIC:		
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Week 4			
	Rol	over	
Week 5	Technical drawing isometric/one-point	Design;	
	perspective	Develop and communicate	
Week 6	Technical drawing sketching skills	design ideas using annotated	
Week 7	CAD – 2D Design	sketches, detailed plans, 3-D	
		and mathematical modelling,	
		oral and digital presentations	
		and computer-based tools.	
		Make:	
		select from and use specialist	
		tools, techniques, processes,	
		equipment and machinery	
		precisely, including computer-	
		aided manufacture	
		Curriculum links	
		GCSE - NEA section A02 and	
		section C of the exam.	
		Engineering - Component 1B	
		Subject link	
		Maths – angles,	
		measurements, scale.	
		Art – drawing skills	

YEAR 8 – SMART/CADCAM Night Light Project

TERM 1	TOPIC: Night light project	*Key Skills/Subject Links	*Career links & BV
Week 1	Baseline assessment – Milestone 1 or 2	Maths – 2D and 3D shape	To promote greater
	data	measuring	awareness for
	Brief and research	Literacy - research skills,	students about the
Week 2	Specification	referencing,	world of work, the
Week 3	Design movements – looking at	IT skills – design	development of key
	different design movements to	programs	skills and
	influence design	Subject link - links to	employability.
Week 4	Design ideas – theme culture/design	GCSE, CAD/CAM, skills	
	movements	based, supporting the	
Week 5	Design Development, to enhance and	NEA, design movements	
	develop ideas to create something new		
March C	and original	-	
Week 6	CAD - 2D design, designing the product	-	
week /	CAD - 2D design, designing the product		
TERM 2	TOPIC: Night light project	Literacy – research skills	 To relate skills
Week 1	Wood properties	Maths – money.	attitudes concents
Week 2	Mock-up and prototyping – using card	measuring.	and knowledge
Week 2	to assess suitability and links to		learned in school to
	specification	Subject link - links to	applications in the
Week 3	Costings – to work out product viability	GCSE, Exam based	wider world.
	and profit margins for product.	questions, NEA practical	• To promote greater
Week 4	Joints -variety of joints including butt	skills and knowledge	awareness for
	joint, dowel and finger joints		students about the
Week 5	Assembly of product		world of work, the
	Finishes – looking at a variety of wood		development of key
	finishes to create high quality product		skills and
Week 6	Circuits – soldering skills and safety –		employability.
	what is a good joint and practice		
	soldering		
TERM 3	TOPIC: Night light project	Science – circuits	• To promote greater
Week 1	Circuits – learn about components used	Literacy – language to	awareness for
March 2		Justily choices	students about the
week z	circuits – learn about components used	GCSE supporting the	development of key
Wook 2	End of rotation according for	NFA	skills and
Week 5	milestone 2 or 3	NLA,	employability
	Evaluation		cimpioyability.
Week 4		-	
Week 5			
Week 6			
TERM 4	TOPIC:		
Week 1			
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	TOPIC		
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Week 5			
TERM 6	Topic:		
Week 1			
Week 2			
Week 3			
Week 4			
	Rol	lover	
Week 5	Drawing skills – shading and textures	Art – drawing skills	
Week 6	Drawing skills – isometric	Maths – Angles,	
Week 7	Drawing skills – one-point perspective	measuring, shape	
		<u>Subject link –</u> Drawing	
		presentation, NEA	

Year 9 Foundation Course

	TODIC: 2D printing CAD/CANA	*Kov Skills/Subject Links	*Corecer links 9 DV
	Pasalina for Milostona 1	T ckill using specific	
Week 1	Introduction to course	dosign programs	awaranass for students
	TinkerCAD log on and basics	Mathe working to	awareness for students
Maak 2	TinkerCAD log off and basics	dimonsions moscuring	dovelopment of key skills
Week 2	Crosification	scalo	and omployability
Week 3	Specification	Litoracy - Instructional	
Week 4	3D printer demo,		
	Design a creative mould which can be	Subject link links to	
	place in a vacuum former to make a	GCSE CAD/CAM skills	
	Chocolate mould – using TinkerCAD	based production	
week 5	Design a creative mould which can be	methods supporting the	
	place in a vacuum former to make a	NFA	
	chocolate mould – using TinkerCAD		
Week 6	Design a creative mould which can be		
	place in a vacuum former to make a		
	chocolate mould – using TinkerCAD		
Week 7	Vacuum forming lesson		
	Evaluation		
TERM 2	TOPIC: 2D Design bookends	Maths – 2D and 3D shape	To promote greater
Week 1	Design brief,	measuring	awareness for
	specification	Literacy - research skills,	students about the
Week 2	Design ideas	referencing,	world of work, the
Week 3	Joints research	IT skills – design	development of key
	Scales of production	programs	skills and
Week 4	Design a creative centre piece for book ends	<u>Subject link -</u> links to	employability.
	using 2D design	GCSE, CAD/CAM, skills	
Week 5	Design a creative centre piece for book ends	based, production	
	using 2D design	methods, supporting the	
Week 6	Use of Jigs, making a jig	NEA, scales of production	
		exam topics	
TERM 3	TOPIC: Bookends project	Maths - Angles,	To promote greater
Week 1	Make bookends Create dowel joints and	measuring	awareness for
	make a 90 degrees angle which will fit the	Literacy – production	students about the
	3D printed centre piece.	diary.	world of work, the
week 2	Make bookends Create dowel joints and	Evaluation and	development of key
	3D printed centre piece	justification, backing up	skills and
Week 3	Attach 3D printer centre piece	points with evidence.	employability.
Week 4	Attach 3D printer centre piece	Subject link - links to	
Week 5	Milestone 2 assessment	GCSE, SKIIIS based,	
Week J	Assembly of product	production methods,	
Week 6	Evaluation	supporting the NEA	
WEERO	LValuation		
	TOPIC: Material Properties	Literacy — research skills	To relate skills attitudes
Wook 1	Introduction of properties	Science – nolymers	concepts and knowledge
WEEK I	How properties are different hardness	chemical reactions	learned in school to
	strength etc	smart materials	applications in the wider
	Woods	Art - toytilos	world
Wook 2	Polymers		
	Papers and cards	Subject link - links to	
Week 3	Taytilor	GCSE Exam based	
	Smart materials	questions	
Week 5	Sindit Indiendis	446666615	
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TERM 5	TOPIC: Graphics superhero packaging	Art – colour work	• To promote greater
Week 1	Introduction and research	Maths – nets, shapes,	awareness for
Week 2	Colour work and fonts	<u>Subject link -</u> links to	students about the
Week 3	Logos	GCSE, Exam based	world of work, the
Week 4	End of year assessment – Milestone 3	questions, NEA,	development of key
	Character development	materials knowledge	skills and
Week 5	Nets		employability.
	London landmark activity		
TERM 6	Topic: Superhero packaging	PSHE – Recycling and the	To promote awareness and
Week 1	Layout	environment	understanding of work,
Week 2	Making card backing	Maths – measuring,	industry, the economy and
Week 3	6 R's	shape	community
	Packaging and recycling	Art – colour work	
Week 4	Vacuum forming	<u>Subject link -</u> links to	
	Evaluation	GCSE, Exam based	
		questions, materials	
		knowledge	
Rollover			
Week 5	Drawing skills – two-point perspective	Art – drawing skills	
Week 6	Drawing skills – Orthographic	Maths – Angles,	
Week 7	Drawing skills - isometric	measuring, shape	
		<u>Subject link –</u> Drawing	
		presentation, NEA	