Year 7 Rotation 1 Design and Technology – Mechanical Car Learning Journey 2018-2019

W	Date	Covering the Key Concepts – 2 x 9 week rotations	Identify and investigate	Design and Make	Analyse and Evaluate	Demonstrate and apply Knowledge		Assessment
1	03.09.18	Balloon Boat- Use Third Angle Projection		ınd Equipı	ment.		r	
		Measure and mark for balloon boat. Dril	iing/accuracy				Са	
2	10.09.18	Assembly. Testing. Isometric drawing of	boat base= rei	nder looki	ng like woo	d.	Mechanical	Peer assessment
3	17.09.18	Mechanical Car. Review design brief and specification- add points to specification. Write task analysis. Information on TAP drawing. Marking and measuring sides for the car. Cut and shape.						
4	24.09.18	Production methods. Jigs, templates and	l formers. Too	ls ID. Drilli	ng hole for	follower.	0	
5	01.10.18	Continue assembly of body of car. Adher labelling of Cams. Movement symbols.	re in position.	Affix living	contour. D	rawing and	at an	Self-assessment
6	08.10.18	RAP					Во	
7	15.10.18	Line bending. Plastics forming info. Assembly of follower. Production schedule – fill in details/missing gaps.						
8	22.10.18	Surface finishes and adhesives. Wax.					Balloon	
9	29.10.18	Evaluation and develop methods of testi	ng. Own revie	w.			ш	Teacher Assessment

FLIGHT PATH STICKER	Key Constructs

AO1	Identify, Investigate and outline design possibilities to address needs and wants.			
AO2	Design and Make Prototypes that are fit for purpose.			
AO3	Analyse and evaluate: • Designer decisions and outcomes, including for prototypes made by yourself and others Wider issues in design and technology			
AO4	Demonstrate and apply knowledge and understanding of: • technical principles designing and making principles			

Date teacher	ASSESSMENT	Grade	B4L (optional)	Target(s) to make progress/Assessment feedback
	Peer assessment AO2 Presentation drawing			
	Self -assessment AO2 Make prototypes that are fit for purpose			
	Teacher assessment AO3 Analyse and			

Evaluate		

Year 7 Rotation 1 Design and Technology – Insulator Learning Journey 2018-2019

W	Date	Covering the Key Concepts – 2 x 9 week rotations	Identify and Investigate	Design and Make	Analyse and Evaluate	Demonstrate and apply Knowledge		Assessment
1	04.02.19	they may be need	What is a fabric/ material? Fabric properties identification and identifying situations when they may be needed. Mono printing – samples on paper					
2	11.02.19 25.02.19	Analysis of brief.	Analysis of brief. What properties will be required for the product? Target market analysis. Mono printing evaluation of sample and final print on fabric.					
3	04.03.19 11.03.19		Investigate cotton. Understanding of stencils and screen printing.					
4		Design and develop a stencil of a cotton boll for screen printing Complete stencil. Screen Print. Screen print process.					atc	
5	18.03.19	Fixing.what is fixing? Insulting properties of fabric and quilted fabric – testing. Develop design ideas Self-assess design ideas.					nsulator	Self- assessment
6		Using a pattern (template), cutting out fabric. Assemble fabric layers and elastic, pin and tack together- temporary stitching. Learning how to use the sewing machine and complete a driving test. Machine stitch around the edge of the product leaving a gap for turning					_	
7	25.03.19	Evaluate work completed. Do any changes need to be made to quilted design? Tack gap closed and using tailors chalk mark quilting lines.						
8	01.04.19	RAP complete all practical. Extension task: research the differences between natural and synthetic fibres. What are. How are they made.						
9 10	22.04.19	Complete quilting	g. Be able to descr	ibe the quilting prod	cess. Evaluate wo	rk		Teacher Assessment

FLIGHT PATH STICKER	Key Constructs

Date teacher	ASSESSMENT	Grade	B4L (optio nal)	Target(s) to make progress/Assessment feedback
	Peer assessment AO2 Presentation drawing			
	Self -assessment AO2 Make prototypes that are fit for purpose			

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ĺ	Teacher		
l	assessment		
l	AO3		
l	Analyse and		
l	Evaluate		

Year 7 Rotation 2 Design and Technology – Mechanical Car Learning Journey 2018-2019

W	Date	Covering the Key Concepts – 2 x 9 week rotations	Identify and investigate	Design and Make	Analyse and Evaluate	Demonstrate and apply Knowledge		Assessment
1	19.11.18	Balloon Boat- Use Third Angle Projection. H&	&S. Tools and E	quipmen	t.			
		Measure and mark for balloon boat. Drilling/	accuracy				car	
2	26.11.18	Assembly. Testing. Isometric drawing of boat base= render looking like wood.					iical	Peer assessment
3	03.12.18	Mechanical Car. Review design brief and specification- add points to specification. Write task analysis. Information on TAP drawing. Marking and measuring sides for the car. Cut and shape.					Mechanic	
4	10.12.18	Production methods. Jigs, templates and for	mers. Tools ID	Drilling h	ole for follo	ower.	and	
5	17.12.18	Continue assembly of body of car. Adhere in position. Affix living contour. Drawing and labelling of Cams. Movement symbols.					oat aı	Self- assessment
6	07.01.19	RAP					В	
7	14.01.19	Line bending. Plastics forming info. Assembly of follower. Production schedule – fill in details/missing gaps.					alloon	
8	21.01.19	Surface finishes and adhesives. Wax.					Bal	
9	28.01.19	Evaluation and develop methods of testing. Own review.						Teacher Assessment

	FLIGHT PATH STICKER	Key Constructs		
AO1	Identify, Investigate and outline design possibilities to addre	ess needs and wants.		
AO2	Design and Make Prototypes that are fit for purpose.			
AO3	AO3 Analyse and evaluate: • Designer decisions and outcomes, including for prototypes made by yourself and others Wider issues in design and technology			
AO4				

Date teacher	ASSESSMENT	Grade	B4L (optional)	Target(s) to make progress/Assessment feedback
	Peer assessment AO2 Presentation drawing			
	Self -assessment AO2 Make prototypes that are fit for purpose			

Teacher assessment			
AO3	!		
Analyse and	!		
Evaluate			

Year 7 Rotation 2 Design and Technology – Insulator Learning Journey 2018-2019

W	Date	Covering the Key	Identify and	Design and Make	Analyse and	Demonstrate and		Assessment
		Concepts – 2 x 9 week rotations	Investigate		Evaluate	apply Knowledge		
1		What is a fabric/ material? Fabric properties identification and identifying situations when they may be needed.						Peer
	29.04.19							Assessment
<u> </u>		Mono printing – samples on paper						
2	06.05.19	Analysis of brief. What properties will be required for the product? Target market analysis. Mono printing evaluation of sample and final print on fabric.						
3		Investigate cottor	n. Understanding o	of stencils and scree	n printing.			
	13.05.19						_	
		Design and develop a stencil of a cotton boll for screen printing						
4	20.05.19	Complete stencil. Screen Print. Screen print process.						
5	03.06.19	Fixing.what is fixing? Insulting properties of fabric and quilted fabric – testing. Develop					Insulator	Self-
	00.00.20	design ideas Self-assess design ideas.					_	assessment
6				out fabric. Assemble				
	10.06.19	_	· · · · · · · · · · · · · · · · · · ·	Learning how to use				
				d the edge of the p				_
7	17.06.19		Evaluate work completed. Do any changes need to be made to quilted design? Tack gap closed and using tailors chalk mark quilting lines.					
8	24.06.19	EOYE						
9	01.07.19	Complete quilting. Be able to describe the quilting process. Evaluate work						Teacher
10								Assessment

<u>nstructs</u>

Date teacher	ASSESSMENT	Grade	B4L (optio nal)	Target(s) to make progress/Assessment feedback
	Peer assessment AO2 Presentation drawing			
	Self -assessment AO2 Make prototypes that are fit for purpose			

Teacher		
assessment		
AO3		
Analyse and		
Evaluate		