

Design and Technology Long Term Plan Year 10

W/C	6 th September	10 th September	17 th September	24 th September	1 st October	8 th October	15 th October	HALF TERM	31 st October	5 th November	12 th November		
	INSET	Introduction to DT	Investigating wood joints	Investigating wood joints	Toolbelt Project	Investigating wood joints	Toolbelt Project			Picture frame project	Toolbelt Project	Picture frame project	
	<ul style="list-style-type: none"> No lessons 	<ul style="list-style-type: none"> Using the workshop safely Baseline Test 	<ul style="list-style-type: none"> Corner halving joint Recording notes 	<ul style="list-style-type: none"> Cross halving joint Assessing your work Sharpening the chisel 	<ul style="list-style-type: none"> Introduction to textiles Making patterns Cutting and pinning fabric 	<ul style="list-style-type: none"> Corner dovetail joint Paring wood 	<ul style="list-style-type: none"> Introduction to the sewing machine Sewing a pocket 			Iterative Design: <ul style="list-style-type: none"> Analysing the context Design brief Product specification 	<ul style="list-style-type: none"> Introduction to textiles Making patterns Cutting and pinning fabric 	Studying the work of others: <ul style="list-style-type: none"> Bauhaus Charles Rennie Mackintosh Art Deco 	
W/C	19 th November	26 th November	3 rd December	10 th December	CHRISTMAS	7 th January	14 th January	21 st January	28 th January	4 th February	11 th February	HALF TERM	
	Picture frame project	Toolbelt Project	Picture frame project	Toolbelt Project		Metal Sundial project	Metal Sundial project	Metal Sundial project	Plastic Desk tidy project	Plastic Desk tidy project	Plastic Desk tidy project		
	Creating a design: <ul style="list-style-type: none"> Design ideas Developing a solution Modelling the picture frame 	<ul style="list-style-type: none"> Sewing the tool belt Attaching the pockets to the belt 	Making the picture frame: <ul style="list-style-type: none"> Cut the joints Glue the frame Router the picture slot Adding a <i>finish</i> to the frame 	<ul style="list-style-type: none"> Adding the buckle Personalising the toolbelt 		Marking out metal: <ul style="list-style-type: none"> General marking out tools Precision marking tools Preparing metals for cutting 	Cutting metal: <ul style="list-style-type: none"> Hand metal cutting tools Machine metal working tools 	Fabricating metal: <ul style="list-style-type: none"> Forming metal Joining metal 	Introduction CAD and CAM: <ul style="list-style-type: none"> Techsoft 2d LaserCutter Making the desk tidy body 	Development of CAD and CAM: <ul style="list-style-type: none"> DesignSParks 3d Printing 	Joining plastics: <ul style="list-style-type: none"> Plastic cements Plastic finishes 		
W/C	25 th February	4 th March	11 th March	18 th March	25 th March	1 st April	EASTER	24 th April	29 th April	6 th May	13 th May		
	Industrial Practices - Woods	Industrial Practices - Woods	Industrial Practices - Metals	Industrial Practices - Metals	Industrial Practices - Plastics	Industrial Practices - Plastics			Bright Animals Project	Bright Animals Project	Bright Animals Project	Exam preparation	
	<ul style="list-style-type: none"> Making wooden components in quantity Using jigs 	<ul style="list-style-type: none"> Quality assurance Quality control 	<ul style="list-style-type: none"> Making metal components in quantity Using jigs 	<ul style="list-style-type: none"> Quality assurance Quality control 	<ul style="list-style-type: none"> Making plastic components in quantity Using jigs 	<ul style="list-style-type: none"> Quality assurance Quality control 			Iterative Design: <ul style="list-style-type: none"> Analysing the context Design brief Product specification 	Creating a design: <ul style="list-style-type: none"> Design ideas Developing a solution Modelling the picture frame	Making the lamp body: <ul style="list-style-type: none"> Marking out Use of CAD and CAM Shaping the body 	<ul style="list-style-type: none"> Revision of keywords Exam paper structure Exam technique 	
W/C	20 th May	HALF TERM	3 rd June	10 th June	17 th June	24 th June	1 st July	8 th July					

Design and Technology Long Term Plan Year 10



	Year 10 Mock Exams			Bright Animals Project Making the electronics: <ul style="list-style-type: none"> • Theory of electricity • Electrical components and circuit modelling • Making the lighting circuit 	Bright Animals Project Assembling the lamp: <ul style="list-style-type: none"> • Joining the body components • Attaching the electronics to the body 	Bright Animals Project Iterative Design: <ul style="list-style-type: none"> • Testing the lamp • Evaluating the lamp 	Year 10 Work Experience	Y10 Showcase <ul style="list-style-type: none"> • Review of the year • Targets for Y11 • Showcasing Y10 coursework 	
--	--------------------	--	--	--	--	--	-------------------------	---	--