

Year 8 Scheme of Work – Designing a Bird Box (8-9 weeks)

Week	Activity	What is being taught	Differentiation	Health & Safety	Cultural Capital
1	<ul style="list-style-type: none"> Complete Health & Safety Rules in workbook Demo how to use Tools and Equipment Safely (<i>new technologies</i>) Write Brief into workbooks 	<ul style="list-style-type: none"> Demo how to work safely in the work shop Literacy skills- key words Using Tools and equipment 	Copy Health and Safety rules from the board into text books Key words for tools on walls and worksheet	<ul style="list-style-type: none"> Complete Health & safety passbook for homework 	<ul style="list-style-type: none"> Working safely Working with others Recycling and Sustainability
2	<ul style="list-style-type: none"> Research Task- Students will research the work of designer Charles Rennie Mackintosh Teacher will present P/P on CRM and show youtube video and discuss Teacher will model how to present research creatively Students will complete research for homework 	<ul style="list-style-type: none"> Presentation skills Drawing skills Oral and Literacy skills The design process Using research to develop and inform ideas 	<ul style="list-style-type: none"> Use of Modelling to support lower ability Use of Key Words Examples of designer’s work to support students with no access to computers or printing 	N/A	<ul style="list-style-type: none"> Analysing the work of past and present designers Charles Rennie Mackintosh William Morris Sir Jonny Ive James Dyson Vivian Westwood Drawing skills Oral and Literacy skills
3	<ul style="list-style-type: none"> Demo how to present 3D design ideas on the page using graph paper 	<ul style="list-style-type: none"> Presentation skills Communicating ideas 	Lower Ability- Modelling good practice by producing 3D design idea for lower ability to use	<ul style="list-style-type: none"> Complete worksheet on names of Tools 	<ul style="list-style-type: none"> Solving design problems

	<ul style="list-style-type: none"> Students produce 3D design Idea for a Bird Box in work book Complete worksheet Research Task on Birds and wildlife for homework 	<ul style="list-style-type: none"> Names of tools 	Extension – design ideas in colour with annotation Key words for tools on walls and worksheet	and Equipment for homework	
4	<ul style="list-style-type: none"> Demo how to produce an Isometric Drawing of a Bird Box using graph paper Modelling the outcome Students then produce their own Isometric Drawing Complete for homework 	<ul style="list-style-type: none"> Presentation skills Communicating ideas 	Lower Ability- Samples of Isometric Drawings available for lower ability 1:1 support with practical task from teacher and technician Extension Task- students will add sizes in mm and improve presentation with additional details (Title. Sizes in mm, annotation)	N/A	<ul style="list-style-type: none"> Solving Design Problems Testing and Evaluating design ideas
5	<ul style="list-style-type: none"> Practice - Demo marking out and cutting finger joints using 6mm MDF 	<ul style="list-style-type: none"> Using an Coping saw & Tenon saw Marking out accurately 	Lower Ability- 1:1 support from teacher and technician Extension task- students work independently		<ul style="list-style-type: none"> Working safely Working with others Use of specialist tools and equipment Recycling and Sustainability
6	<ul style="list-style-type: none"> Demo how to mark out pieces accurately for Bird Box safely onto MDF and cut out using correct tools Students then mark out all of their pieces onto MDF 	<ul style="list-style-type: none"> Marking out accurately Practical skills 	Templates available for lower ability 1:1 support with practical task from teacher and technician		<ul style="list-style-type: none"> Working safely Working with others Use of specialist tools and equipment

					<ul style="list-style-type: none"> Recycling and Sustainability
7	<ul style="list-style-type: none"> Students then cut out their own MDF pieces accurately 	<ul style="list-style-type: none"> Practical skills-cutting out Using equipment and tidying away afterwards 	<p>Extension task- students working independently cut out finger joints accurately</p>		<ul style="list-style-type: none"> Working safely Working with others Use of specialist tools and equipment Recycling and Sustainability
8	<ul style="list-style-type: none"> Demo how to improve the quality of finish using Belt Sander machine (<i>new technologies</i>) Students improve quality of finish using Belt sander, hand file and sand paper Students then assemble pieces using PVA glue 	<ul style="list-style-type: none"> Finishing skills Quality control Using equipment and tidying away afterwards Social skills & emotional intelligence 	<p>Lower Ability-1:1 support with practical tasks from teacher and technician</p> <p>Extension Task – working with a partner to complete practical tasks</p>		<ul style="list-style-type: none"> Working safely Working with others Use of specialist tools and equipment Recycling and Sustainability
9	<ul style="list-style-type: none"> Demo how to assemble the box using clamps Demo how to cut out the roof and assemble Demo how to drill the backing board using the Pillar Drill and assemble (<i>new technologies</i>) 	<ul style="list-style-type: none"> Practical skills using clamps, using Pillar Drill, using Belt Sander Quality control Using equipment and tidying away afterwards Social skills & emotional intelligence 	<p>Lower Ability-1:1 support with practical tasks from teacher and technician</p> <p>Extension Task – working with a partner to complete practical tasks</p>		<ul style="list-style-type: none"> Working safely Working with others Use of specialist tools and equipment Recycling and Sustainability

<p>10</p>	<ul style="list-style-type: none"> • Students photograph their work using the digital camera and print (<i>new technologies</i>) • Students complete a written evaluation of their work and glue in picture of their work Students complete Evaluation for homework 	<ul style="list-style-type: none"> • Using digital camera • IT skills • Literacy skills • Use of key technical words • Presentation skills 	<p>Lower ability- can use the Evaluation on the Power Point slide inserting correct key words</p> <p>Extension task- students will label their picture and annotate using correct key words</p>		<ul style="list-style-type: none"> • Working safely • Working with others • Use of specialist tools and equipment • Recycling and Sustainability • Testing and Evaluating ideas
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