

Design Technology Long Term Plan Year 7 2020-21



Temperance Term

W/C	7 September	14 September	21 September	28 September	5 October	12 October	19 October	Half term
Topic	1. Induction to D&T:	2. Baseline test	3. Baseline test	4. Baseline test INTERVENTION	5. Baseline test INTERVENTION	6. Trinket Box: Analysing the Context	7. Trinket Box: Specification and modelling	
Min 1 Task & Learning Journey & Plenary	Safety – Head to toe Tour of DT1/2 Bench tasks Intro page of workbooks Room safety mind map Safety dismissal	Introduction to the design process Analysing skills Design skills Communication skills	Modelling skills Evaluation	Individual to student based upon teacher feedback	Individual to student based upon teacher feedback	ACCESS FM for trinkets Explanation of the design process Analysing the context Exploring possibilities Preparing for modelling ideas Safety dismissal	Creating a Brief and Specification Basic designs Modelling an idea Introduction to woodworking tools	
Challenge	Tool in use (colour and detail) PEE explanation of tool	Detailed analysis 3 designs	High quality model Evaluation (PEE)	One section improved by one 'level'	One section improved by one 'level'	Analysis is of PEE style Range of analysis techniques used	Specification is 'what' and 'why' Model has accuracy	
Assessment & Homework	Safety test	Teacher assessment	Teacher assessment	Student assessment Teacher VF	Student assessment Teacher VF	Rainbow Leaper Research Trinkets	Student assessment	
W/C	2 November	9 November	16 November	23 November	30 November	7 December	CHRISTMAS	
Topic	8. Trinket Box: Specification and modelling	9. Trinket Box: Bauhaus lid design	10. Trinket Box: Evaluating the model	11. Trinket Box: Investigating woods	12. Trinket Box: Planning the making	13. Trinket Box: Making the pine middle		
Min 1 Task & Learning Journey	Completing the model base Introduction to the sander Testing ideas	Gather research of Bauhaus Design the lid Make the model lid Research hinges... Intro to glue gun	Adding opening device Painting the lid Evaluating the model Suggest improvements	Learn characteristics of 3 woods Create a manufacturers specification	Mind-map the stages of making Create a detailed making plan	Wood keywords introduced Using the making plan Cutting the pine to shape for the box middle		
Challenge	Base or the hole is not square Testing uses the spec'	Research informs ideas Lid reflects Bauhaus clearly	Lid opens well Painting is even and effective	Characteristics inform the specification	Plan includes stages, instructions and tools	Wood keywords are notated Hole will be cut		
Assessment & Homework	Teacher assessment Keyword Spelling	Student assessment Keyword Quiz	Teacher VF Keyword Definitions	Student assessment Why has it never been invented yet	Student assessment Why has it never been invented yet	Teacher VF Responding to Feedback		

Design Technology Long Term Plan Year 7 2020-21



Justice Term

W/C	4 January	11 January	18 January	25 January	1 February	8 February	HALF TERM
Topic	15. Trinket Box: Attaching the plywood base	16. Trinket Box: Adding a finish to pine	17. Trinket Box: Making the MDF lid	18. Trinket Box: Painting the MDF lid	19. Trinket Box: Testing and evaluating the box	20. Trinket Box: Making improvements	
Min 1 Task & Learning Journey	Making Plywood Make plywood Completing the pine middle Revisit the band facer Attaching the plywood base	Making MDF Make MDF Adding a finish: sanding and oiling Revisit the band facer Attaching the MDF base	Measure lid Cut lid Attach lid	Prepare lid for painting Paint lid	Develop test used for the model trinket box Test box Evaluate box Develop box design	Identify what can improved Make improvements Record changes in evaluation	
Challenge	Plywood manufacture notes are detailed Base has been glued on	MDF manufacture notes are detailed Base has been glued on	Lid is accurately measured and cut Hinge or pivot used	Evidence of precise painting	Product test focusses closely on specification Evaluation informs future design	MDF manufacture notes are detailed Base has been glued on	
Assessment & Homework	Teacher assessment Keyword Spelling	Student assessment Keyword Quiz	Teacher VF Keyword Definitions	Student assessment Think like a designer	Student assessment Think like a designer	Teacher VF Responding to Feedback	
W/C	22 February	1 March	8 March	15 March	22 March	29 March	EASTER
Topic	21. Awesome Ornaments: Analysing the Context	22. Awesome Ornaments: Creating a Brief	23. Awesome Ornaments: Developing a Design 1	24. Awesome Ornaments: Developing a Design 2	25. Awesome Ornaments: Research Metals	26. Awesome Ornaments: Research Metal Joining	
Min 1 Task & Learning Journey	Exploring an independent design process Analysing the context Exploring possibilities Model a sundial	Gather research on garden ornaments Creating a Brief and Specification Basic designs	Analyse material sizes Model one ornament idea Photograph and annotate idea Test and evaluate idea ready for development	Develop model or make 2 nd model Photograph and annotate idea Test and evaluate idea ready for development	Understand how to test 3 metals Carousal testing of Copper, Aluminium and Steel Record characteristics Create manufacturers specification	Understand how to join metals Carousal of soldering, pop-riveting and set screws Record methods Develop manufacturers specification	
Challenge	Analysis is of PEE style Range of analysis techniques used	Specification is 'what' and 'why' Research uses a range of analysis techniques	Model has accuracy Annotation is PEE including diagrams	Analysis is of PEE style Range of analysis techniques used	Knowledge is of PEE style All boxes filled in	Knowledge is of PEE style All boxes filled in	
Assessment & Homework	Teacher assessment Keyword Spelling	Student assessment Keyword Quiz	Teacher VF Keyword Definitions	Student assessment Think like a designer	Student assessment Think like a designer	Teacher VF Responding to Feedback	

Design Technology Long Term Plan Year 7 2020-21



Courage Term

W/C	19 April	26 April	3 May	10 May	17 May	24 May	Half Term
Topic	27. Awesome Ornaments: Working Drawing	28. Awesome Ornaments: Plan the Making	29. Awesome Ornaments: Prepare Materials	30. Awesome Ornaments: Marking Out Materials	31. Awesome Ornaments: Cutting Materials	32. Awesome Ornaments: Cutting Materials	
Min 1 Task & Learning Journey	Video introduction demonstrating Isometric and Orthographic projection Explore ortho and iso Explain what working drawings are Create ornament working drawing	Review working drawings Introduce dimensioning Explain dimensioning ortho/iso house Explore dimensioning working drawings Plan how to make the ornament	Metalwork keyword list issued and analysed Explain annealing copper and aluminium Explain cutting metals from stock Student prepare their materials for manufacture	Metalwork keywords revisited and notes expanded Video of making aluminium Explain metalwork marking tools Mark out metal	Metalwork keywords revisited and notes expanded Video of making steel Explain metalwork cutting tools Cut out metal parts for ornament	Metalwork keywords revisited and notes expanded Video of making steel Explain metalwork cutting tools Cut out metal parts for ornament	
Challenge	Correct orthographic house Correct isometric house	Correct use of 10 dimensions Plan has instructions, tools and insight	Material blanks are made Standard components are sourced	Ornament parts are marked out accurately Detailed aluminium production flow map	Ornament parts are cut out precisely Detailed steel production flow map	Ornament parts are cut out precisely Detailed steel production flow map	
Assessment & Homework	Teacher assessment Keyword Spelling	Student assessment Keyword Quiz	Teacher VF Keyword Definitions	Student assessment Think like a designer	Student assessment Think like a designer	Teacher VF Responding to Feedback	
W/C	7 June	14 June	21 June	28 June	5 July	12 July	Summer Holidays
Topic	33. Awesome Ornaments: Shaping Materials	34. Awesome Ornaments: Forming Materials	35. Awesome Ornaments: Joining Materials	36. Awesome Ornaments: Adding a Finish	37. Awesome Ornaments: Testing and Evaluating	38. Awesome Ornaments: Making Improvements	
Min 1 Task & Learning Journey	Metalwork keywords test and self-marking Video of shaping copper Explain metalwork shaping tools Shape metal parts for ornament Photograph making	Metalwork keywords re-test and self-marking Demonstration of the metal bending machine Bend and form metal components Photograph making	Revisit metal joining techniques Drilling metal safely Assemble ornaments Photograph making	Explanation of metal finishing: wet/dry and Brasso Add a finish to ornaments Complete ornaments	Plan test using the specification Peer test ornaments Evaluate ornament Develop an improved ornament idea	Make improvements to the ornament	
Challenge	Ornament parts are shaped precisely 80%+ for keyword test	Detailed notes for sheet bender 80% for keyword re-test	Analysis is of PEE style Range of analysis techniques used	High standard of finish to all components	Test closely focusses upon the specification Evaluation uses a range of annotation techniques	Product is potentially commercially viable	
Assessment & Homework	Teacher assessment Keyword Spelling	Student assessment Keyword Quiz	Teacher VF Keyword Definitions	Student assessment Think like a designer	Student assessment Think like a designer	Teacher VF Responding to Feedback	