

Design Technology Long Term Plan Year 9 2020-21



Temperance Term

W/C	7 September	14 September	21 September	28 September	5 October	12 October	19 October	Half term
Topic	1. Product in a Tin: Analysing the Context	2. Product in a Tin: Practical Research – Making a plywood Tic-Tac-Toe	3. Product in a Tin: Practical Research – Making a plywood Tic-Tac-Toe	4. Product in a Tin: Making the base for the tic-tac-toe	5. Product in a Tin: Improving practical research Tic-Tac-Toe	6. Product in a Tin: Practical Research – Making a felt monster	7. Product in a Tin: Practical Research – Making a felt monster	
Min 1 Task & Learning Journey & Plenary	Safety – Head to toe Collect books Tour of DT1/2 Bench tasks Verbal intro to the project Cutting plywood 'X' and 'O' Safety dismissal	Risk Assessment Analyse the context Possibilities and problems Drilling and finishing the 'X' and 'O' Photograph work and evaluate game suggesting improvements Homework discussion	Specification Oiling wood Drilling and finishing the 'O' Photograph work and evaluate	Homework presentations How to construct the base Gluing on the string Designing the artwork and printing Complete the base Photograph the base. Evaluate the pouch Design improvements and/or adaptation	Homework presentations Evaluate the Tic-Tac-Toe Design improvements and/or adaptation 1. Finish tic-tac-toe 2. Correct mistakes 3. Develop the tic-tac-toe	Wood keywords introduced How felt is made video Fabric patterns Cutting felt 3 Stitches: running, whipping and blanket Make the monster	Wood keyword test Embellishing the felt monster Adding stuffing Completing the monster Photograph monster	
Challenge	Accuracy with both saws Can repair coping saw	Thumbnail explanations and PEE explanations	All 5 Os have been made with precision and similarity	Artwork is original and creative. Base is made well	Evidence that each of 2-3 have been met	Felt monster has been sewn ready for embellishment	Has been completed to a good standard and embellished	
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. Product in a Tin: Improving practical research Tic-Tac-Toe	9. Product in a Tin: Practical Research – Making an acrylic puzzle	10. Product in a Tin: Practical Research – Making an acrylic puzzle	11. Product in a Tin: Developing a product for a tin	12. Product in a Tin: Preparing materials	13. Product in a Tin: Cutting materials		
Min 1 Task & Learning Journey	Wood keyword retest Evaluate the felt monster Design improvements and/or adaptation 1. Finish felt monster 2. Correct mistakes 3. Develop the monster	Textile keywords introduced How acrylic is made video Cutting acrylic Shaping acrylic Edge finishing acrylic	Textile keyword test Evaluate the puzzle Design improvements and/or adaptation 1. Finish puzzle 2. Correct mistakes 3. Develop the puzzle	Textile keywords retest Revisit the context and specification Write a brief Design a product Model the product	Acrylic keywords introduced Plan the making Collect materials Mark out the materials	Acrylic keywords test Q&A for cutting materials Cut materials Photograph and evaluate making		
Challenge	8. Product in a Tin: Improving practical research Tic-Tac-Toe	Acrylic puzzle has been made to good standard	Evidence that each of 2-3 have been met	Model is life size, creative and accurate	All materials are accurately prepared and ready for cutting	All materials are cut to the correct size		
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		

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Justice Term

W/C	4 January	11 January	18 January	25 January	1 February	8 February	HALF TERM
Topic	15. Product in a Tin: Testing and evaluating the Product in a Tin	16. Product in a Tin: Improving Product in a Tin	17. Nik-Nak Box: Designing a box	18. Nik-Nak Box: Making the frame 1	19. Nik-Nak Box: Making the frame 2	20. Nik-Nak Box: Finishing the box	
Min 1 Task & Learning Journey	Plan test using specification Peer assess products Evaluate product Make tin label	Product improvements and/or adaptation 1. Finish Product in a Tin 2. Correct mistakes 3. Develop the Product	Analyse the context Learn how the box is constructed Create a design brief Design the box lid	Learn how to cut a lap joint Make practice joint Prepare materials for the box	Mark out the lap joints Jut the 4 laps Glue and clamp frames	Marking out the base Cutting the base Attaching the base Adding a finish to the box	
Challenge	Test will be creative and evaluation signposts improvements	Evidence that each of 2-3 have been met	Box design is original and creatively uses KS3 making skills	Lap joint score 8/10+	Frame is accurate in size and squareness	Box is neatly sanded and oiled	
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. Nik-Nak Box: Making the acrylic lid	22. Nik-Nak Box: Making the hinge and latch 1	23. Nik-Nak Box: Making the hinge and latch 2	24. Nik-Nak Box: Making the hinge and latch 2	25. Nik-Nak Box: Revisit to Pewter casting	26. Nik-Nak Box: Pewter casting 1	
Min 1 Task & Learning Journey	Marking out the lid Cutting the lid Edge finishing the lid	Revisit 3d printer Printing the hinges Designing a latch	Continue printing the hinge Make the latch	Complete hinge printing and latch making Assemble the lid to the box	Video of casting Demonstration of pewter casting Designing box lid decoration Make the pewter mould	Pewter safety poster completed Complete moulds Rota of pewter casting Demonstrate cutting, drilling and finishing a pewter casting	
Challenge	Box design is original and creatively uses KS3 making skills	Hinge has been printed	Latch has been made	Lid and latch are attached to the box	Creative and original pewter embellishment	Casting is made	
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	

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Courage Term

W/C	19 April	26 April	3 May	10 May	17 May	24 May	Half Term
Topic	27. Nik-Nak Box: Pewter casting 2	28. Nik-Nak Box: Test and Evaluate the Nik-Nak box	29. Catapults: Investigate the context	30. Catapults: Gathering research	31. Catapults: Preparing materials	32. Catapults: Marking out the wood joints	
Min 1 Task & Learning Journey	All complete the casting Evaluate casting Attach to the box lid	Plan a test for the Nik-Nak box using the specification Test the box Evaluate the box	Analyse the context Study the example catapult Learn how to make a halving joint	Revisit the halving joint: chisel safety Cut the halving joint Glue the halving joint	GCSE students work independently others in table groups of 4 Mark out the spar lengths Cut the spar Sand ends	Mark out the wood joints Check accuracy against shadow board	
Challenge	Casting is finished to a high standard and attached to the box lid	Evaluation is insightful and signposts improvements	Halving joint is marked out accurately	Halving joint is 8/10+	All pieces have been cut to length	Joints are marked with accuracy	
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. Catapults: Cutting out the wood joints 1	34. Catapults: Pairing the wood joints	35. Catapults: Gluing the catapult frame	36. Catapults: Finishing the catapult	37. Catapults: Finishing the catapult	38. Catapults: Finishing the catapult	
Min 1 Task & Learning Journey	Saw all joints	Revisit chisel safety Pair the wood joints	Demonstrate clamping Glue frames	Sand frames Attach firing string Test catapult Develop design	Develop Catapult	Develop Catapult	
Challenge	Sawing is within tolerance	Sawing is within tolerance	Sawing is within tolerance	Frame is accurately made	Add wheels to the frame	Add wheels to the frame	
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	