

Continuity Curriculum

An online shadow curriculum for students temporarily out of lessons to ensure continuity of learning

Year 8 Design and Technology

Week Beginning	Lesson Title	Lesson Objective	Online Lesson Link	Any additional instructions?
3 rd September	Lesson 1: Context and Task analysis	Identify and explain the purpose, target user, and function of an LED picture frame based on a given design brief. Analyze similar existing products and record key findings (e.g., materials, style, power source) to inform their own design ideas.	https://www.youtube.com/watch?v=8YcPrSenKvc https://www.youtube.com/watch?v=4lZobnVrgSo https://www.youtube.com/watch?v=78HdVXypAs4 https://qualifications.pearson.com/content/dam/pdf/GCSE/design-and-technology/2017/Teaching%20and%20learning%20materials/delivery-guide-1-1.pdf	Use the following information to compare existing products (LED picture frame) using cost, material, size, aesthetics and power source)
8 th September	Lesson 2: Research Mood board and Initial ideas	Visually communicates their design theme, influences, and possible materials for an LED picture frame. Generate and present at least two annotated initial design ideas that reflect their research and are suitable for the target user and purpose.	https://qualifications.pearson.com/content/dam/pdf/GCSE/design-and-technology/2017/Teaching%20and%20learning%20materials/delivery-guide-2-5.pdf	Create a mind map and mood board of an object that is used to display photos.
15 th September	Lesson 3: Introduction to Electronics and Electronic Components	Be able to identify and explain the function of basic electronic components used in the LED circuit (e.g., LED, resistor, battery, switch, wires). Correctly assemble a simple LED circuit on a breadboard or using basic components, demonstrating safe and accurate handling of electronic parts.	EDEXCEL GCSE Design Technology: Electronic Systems (1.6)	Create a table showing no less than 10 electron components showing: symbol and their function.
22 nd September	Lesson 4: Making of Frame - Timber	Students will be able to measure, mark, and cut timber accurately using appropriate tools and techniques, following their design specifications. Students will demonstrate safe and effective use of hand tools (e.g., saws, bench hooks, sanding blocks) while assembling the wooden frame structure.	Which Wood Joinery Method is Strongest? Let's Find out!	Make a table Showing the difference between Hardwood and Software which should include their working properties.

29 th September	Lesson 5: Soldering Components	<p>Students will be able to identify and correctly position electronic components on a circuit board or stripboard in preparation for soldering.</p> <p>Students will demonstrate safe and effective soldering techniques to create secure and functional electrical connections for their LED circuit.</p>	<p>Soldering Tutorial for Beginners: Five Easy Steps</p>	Write a detailed instruction on how to use the soldering iron.
6 th October	Lesson 6: Final Design Finishing(sanding/ polishing) & Assessment of Product	<p>Be able to apply appropriate finishing techniques (e.g., sanding, polishing, painting) to enhance the appearance and quality of their wooden picture frame.</p> <p>Students will evaluate their finished product against the design brief and success criteria, identifying strengths and areas for improvement in both function and aesthetics.</p>	<p>EDEXCEL GCSE Design Technology: Surface Treatments and Finishes (7.8)</p> <p>https://www.youtube.com/watch?v=oFwWrAq47io</p>	After watching the videos use google slides to create slides of different types of surface finishes used on timber.