



Year 3 Medium Term Planning for the Learning Challenge Curriculum

Term: Autumn

DT Project: Photo Frames

<u>Previous Learning</u>	<u>New Knowledge /Consolidation</u>	<u>End of Project Outcome</u>	<u>Environmental Links</u>	<u>Key Inventors/People</u>	<u>Project Vocabulary</u>
Children have used cutting techniques to create pulleys and levers out of card.	Strengthening using cladding (+ introducing rendering) building on the use of tabs & brackets to create a cardboard prototype photo frame. Use of measuring. Combining materials (paper, card and glue) to create (joining) and strengthen a frame. Application of cladding and rendering.	To measure, cut and join materials using different techniques to strengthen a form.	N/A	N/A	Investigate & Compare Rendering Cladding Assemble Components Parts Accuracy Precision Mark out Reinforce Strengthen Evaluate Durability

Section	Lesson	Key Skills	Learning Objective & Activity
Explore	1	- Evaluate existing products, considering: how well they've been made, materials, whether they work, how they have been made, fit for purpose - Use research for design ideas - Explain how product will work.	<u>To investigate attaching and strengthening techniques.</u> Explore existing products that sure a range of different strengthening techniques. (Cladding and rendering.) Take part in a class discussion about findings.
Plan	2	- Plan and choose appropriate materials to use to create a photo frame. - Plan appropriate techniques to use to strengthen a product.	<u>To consider what materials to use as a frame and why they are suitable.</u> Consider as class what is needed to create a successful photo frame and create a design criterion. Decide between using cladding or rendering as a strengthening technique to create a frame. Explain why this material/ and technique has been chosen.

			Plan out the shape and size of the parts needed. Consider how the frame can be joined successfully to strengthen the join.
Make	3	- Use strengthening techniques to create a photo frame out of cardboard. - Use cutting and measuring to create appropriate parts.	<u>To measure, cut and join materials to create a photo frame.</u> Use cardboard to create a frame that has been strengthened by either cladding or rendering. Use measuring to create accurate parts to use. Use appropriate techniques to create a product.
Evaluate	4	- Use criteria to evaluate product - Consider what was successful about their product. - Compare their work against the success criteria.	<u>To consider the success of a product.</u> Consider durability and strength of a product. Consider how well their outcome has been made. Consider the success of their outcome against the success criteria. Consider what could be done differently to improve their work. Consider other materials they could use in future.

Substantive Knowledge	Disciplinary Knowledge
------------------------------	-------------------------------