

**What we already know:**

- Upcycling Project – Using techniques and machinery to restore timber for photo frame

**Topic:**

**Design & Technology  
Year 7 Term 4**

**What's next**

- Upcycling Project – Completion of Frame and using techniques and machinery to restore timber for a coaster set

**Golden Concepts**

Design

Make

Evaluate

Technical Knowledge

**Key Vocabulary**

Prototype	An early model or sample of a product used to test and evaluate design ideas
Sustainability	Considering the environmental impact of materials and processes in making the box
Joinery	The process of connecting two or more pieces of material, particularly wood
Materials	Types (e.g., hardwoods, softwoods, plywood), properties (strong, durable), uses (furniture, toys).
Technical Drawing	Using sketches, diagrams and annotation to explore
Functionality	Ensuring a product works as intended for its user.
Make	Production of final product. Frame and Coasters.
Finishing	Painting, varnishing, or decorating the box to improve its appearance and durability along with coasters.
Evaluation	Methods of testing designs, feedback, improvements.

**What I will know by the end of the unit: Understand key concepts in DT and develop skills along with terminology and improve their safety techniques**

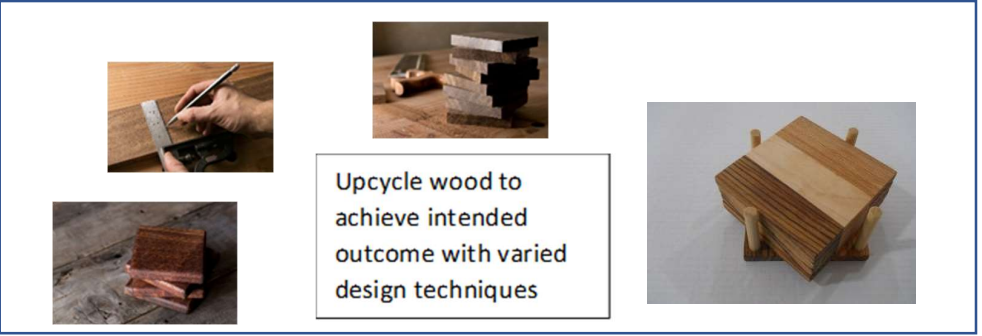
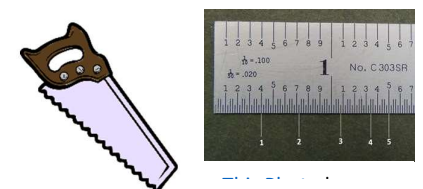
- **Research:** Gather information on different box designs, materials, and functions
- **Sketching:** Draw initial ideas of what the box will look like
- **Planning:** Create detailed plans, including measurements and material requirements
- **Making:** Cut, shape, and assemble the materials
- **Finishing:** Sanding, painting, and adding any final details to complete the box
- **Evaluation:** Assess the functionality and appearance of the finished box
- **Adhere to Health & Safety Rules at all times**



Research your design of photo frame and develop your idea

Make final design. Reflect on design and get feedback.  
At all times adhering to Health & Safety Rules

Use the correct tools and materials to achieve desired outcome



Upcycle wood to achieve intended outcome with varied design techniques