

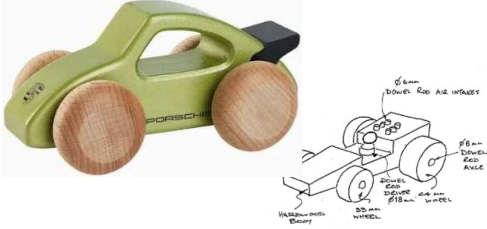
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|---|---|---|
| What we already know: <ul style="list-style-type: none"> Upcycling Project – Using techniques and machinery to restore timber for coaster set and holder or photo frame | Topic: Design & Technology Year 7 Term 5 | What's next <ul style="list-style-type: none"> To produce step by step plans for his/her idea for their model race car/pull along toy |
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| Golden Concepts | | | | |
|-----------------|--------------|-------------------|------------------------|------------|
| Design Process | D & T Skills | Tools & Equipment | Use of Wheels and Axle | Evaluation |

| 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 car/pull along toy
- **Evaluation:** Assess the functionality and appearance of the finished car/pull along toy
- **Adhere to Health & Safety Rules at all times**


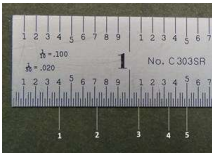


Research your design of model car or pull along toy and develop your idea through sketching

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