

Year 8 D&T Learning Outcomes

Unit 1: Hand Skills – Bottle Openers

- Understand and be able to use working drawings.
- Understand and maintain a high level of health and safety awareness in the workshop.
- Mark and accurately cut metal.
- Learn how to appropriately use a range of metalwork hand tools.
- Understand and show the importance of accuracy and repeatability.
- Understand and appropriately select attaching methods for your product.
- Show how ergonomics can be applied to a practical product.
- Test and select appropriate finishes for your final product.

Unit 2: Metal Man

- Be able to design a product within set parameters.
- Be able to accurately calculate the cost of materials to determine the overall cost of a product.
- Appropriately select reference images to inspire practical work.
- Safely use a range of tools and machinery to mark and cut metal.
- Have a clear understanding of quality control and where it is important during the manufacturing process.
- Be able to explain the brazing process and identify key points for health and safety and quality control within the process.
- Understand and be able to explain and preform plastic dip coating.
- Safely use a range of tools and machinery to mark and form wood.
- Investigate and appropriately select adhesives for joining different materials.
- Investigate and select an appropriate finish for woods.

Unit 3: Making with Metals

- Understand and be able to correctly identify ferrous and non-ferrous metals.
- Be able to confidently explain what an alloy is.
- Understand how materials can be modified to strengthen and protect.
- Understand and be able to appropriately select from a range of stock forms and components.