Year 10 Resistant Materials and Graphics revision checklist

Types of forces

Man-made boards

Hardwoods

Softwoods

Composite materials

Ferrous metals

Non-ferrous metals

Smart materials

Hand tools

Finishes for metal and wood

Keywords: Aesthetics, Ergonomics, Anthropometrics & Specification

Thermoplastics

Thermosetting plastics

CAM – Computer aided manufacture

CAD - Computer aided design

The lifecycle of a product

Upcycling

Types of research

Inputs processes and outputs of a circuit

Types of levers

Types of mechanisms

Renewable and non-renewable energy sources

Types of batteries

Types of recycling

Types of adhesives (glues)

Laser cutting and how it works

3D printing and how it works

Vacuum forming and how it works

Tolerances

Types of fabrics – synthetic and natural fibres

How is plywood made?

What is fibre glass and how is it used

Plastic/dip coating and how it works

Anodising and how it works

What is an Alloy?

How are plastics made?

What is tanalising what are its benefits?

How is MDF made?

What is wood veneer?

Properties of materials (strength, toughness, malleability etc.)

How is metal ore extracted and processed

Finishes for Papers and Boards: Die cutting, varnishing, UV varnishing, Spot varnishing, laminating

Printing Techniques for Papers and Boards: Lithography, Screen Printing, Digital Printing, Gravure