

Keywords: YR 11

Autumn 2

Engineering

Topic Title: Engineering

Introduction to the topic: Why are you learning it and how does it link to what you've learned before?

Engineering tools and manufacturing.

What lessons will you cover during the topic?

Uses and limitations of engineering processes, using tools and techniques safely, finishing techniques.

Keyword	Definition
Hydraulic system	A control system that uses a liquid such as oil
Heat Treatment	The act of heating and cooling a metal to change its chemical structure
Chemical Treatment	The act of applying chemicals to the surface of a product
Surface Finishing	Adding an external surface to a component to improve it in some way
Chuck	Device for holding a piece of work
Soldering	Joining metal parts using solder
Brazing	Joining metals with an alloy
Welding	Joining metal by melting and fusing their surfaces
Annealing	Slow heating and cooling to create a large grain size, ductile material

Hardening	Rapid heating, followed by rapid cooling to create small grain size, hard, brittle material
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