

Knowledge Organizer – Year 7 Shield/Coat Hook



Spokeshave



Smoothing Plane



Strip Heater



Pillar Drill



Counter sink bit



Bradawl



File

TOOLS

KEY VOCABULARY

Spokeshave	Countersink
Pine	Design
Sleeve	Rivet
Chamfer	Powder coat
Clearance hole	Pilot hole

You should be able to spell and explain the meaning of each of these terms by the end of this rotation.

Scales of Production

Type	Description
One-Off	Just One is made. e.g the Severn Bridge
Batch	Making 2 or more identical products
Mass	Making 1,000s of the same products e.g. Cars
Continuous	Making parts on a constant cycle e.g. paperclips

Engineering has *SEVEN* main sectors

Engineering Sector	Description	Example Products
Aerospace	Products and machines that fly	Plane, rockets
Automotive	Vehicles, including lorries, buses, cars	Tractor/lorry
Communications	All products that allow us to talk and track people or products	Phones, GPS and Satellites
Electrical/ Electronic	Devices that use electrically parts to work	Self checkout Tesco Television Speaker
Mechanical	Mainly metal type devices and machines	Lift Robot
Biomedical	Products used to help people or carry out testing on them	Prosthetic limbs MIR scanner X-ray machine
Chemical	Any product that is developed using chemistry knowledge	Vanilla essence Diesel Washing up liquid

Countersink Screws and the holes need in the wood

