

DESIGN TECHNOLOGY KNOWLEDGE ORGANISER

Topic: Jewellery project







Piercing Saw – Used to cut thin sheet metal.



Engineer Square – Used to mark out right angles.



Centre punch- Used to mark out centre of hole before drilling.



Scribe- Used to mark out on metal.

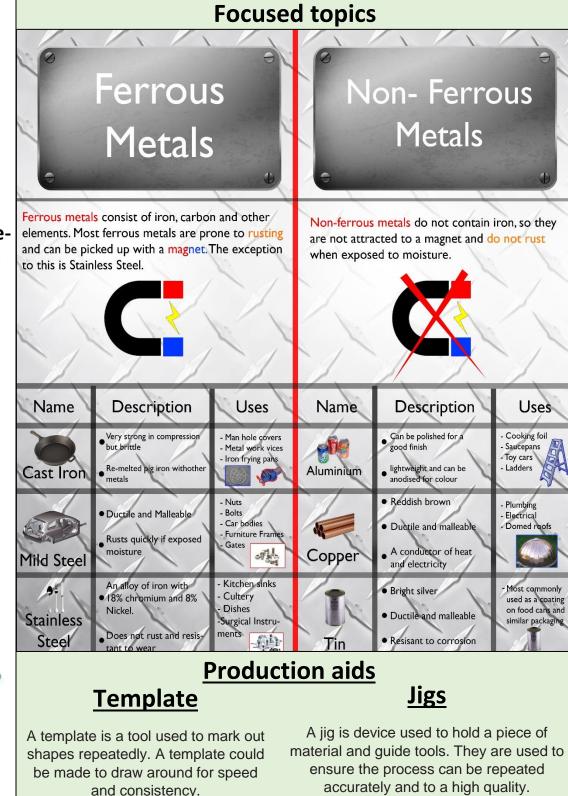


Buffer/polishing machine-Used to buff/polish metal and plastics

Metalwork Vice – Used to secure material while working on it (cutting, filing sanding etc.)



Tin snips – Used to cut thin sheet metal.





accurately and to a high quality.



along its length. to create a shape. type of metal.

information on here. to test you.

To go further:



YEAR 9

Key Terms

Brittle - Will snap easily and will not bend.

Malleable - The ability of a material to permanently deform in all directions without cracking.

Ductile - The ability of a material to deform by stretching

Corrosion – Corrosion is the deterioration and loss of a material and its properties due to chemical and other reactions of the exposed material surface with the surrounding environment.

Casting– The process of pouring molten metal into a mould

Ferrous metals – Are metals that contain iron.

Non-Ferrous metals – Are metals that do not contain iron. **Alloys** – A metal that contains more than one different

Tasks

Task 1: Learn the ferrous and non-ferrous metal definitions and the types of metals that are in each group.

Task 2: Write about production aids then research and find the other types of production aides used in industry.

Task 3: Create 6 questions that can be answered from the

Task 4: Draw two tools and write what they are for. Task 5: Create a quiz based on task 1, 2 or 3. Get someone

Task 6: Create a mind map for the information you remember and red pen anything you've forgotten. Task 7: Teach it. Create a task that can be used to teach

some of the information from here.

How It's Made: Aluminium

Onshape: 3D modelling tutorial

