

Year 9 Design & Technology Term 1

The design process Key words

Design Brief - A short statement of intent.

Client- This is the person that you are designing for.

Target audience- The group of people that you are designing for.

Specification - A list of things that need to be included in your designs.

Initial ideas- These are the drawings of your design ideas

Prototype- These are models of design to help identify any problems.



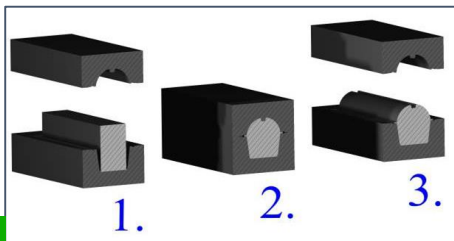
Can you EXPLAIN at least 3 key words that are related to the DESIGN PROCESS.

Manufacturing methods

Casting

A manufacturing process involving melting materials such as metals and pouring them into a cast.

We will be Pewter casting



Non - Ferrous Metals

Non- Ferrous metals DO NOT contain Iron

Pewter

- It is soft and malleable.
- It has a low melting point.
- It is suitable for casting.
- It is used to make decorative pieces.



Aluminium

- It is ductile, soft and malleable.
- It resists corrosion.
- It is light weight.
- It is used to make things like drinks cans, ladders and aircraft.



Can you IDENTIFY at least 1 Ferrous and Non-Ferrous Metal?

Ferrous Metals

Ferrous metals DO contain Iron

Mild steel

- It is tough and strong.
- It rusts easily.
- It is the most common metal used for things such as screws and metal products used for engineering.



Stainless steel

- It is an alloy so it does not rust as easily.
- It is tough.
- It rusts easily.
- It is used for products such as cutlery and medical instruments.



Can you EXPLAIN the difference between Ferrous and non-ferrous metals?



Can you EXPLAIN at least 1 manufacturing process for metal?

Forging

This is a manufacturing process that compresses metals forming them in to shape. It is one of the strongest methods of manufacturing.