

GRAPHICS



- **Packaging Environmental considerations:** Can the product be recycled? How much material has been used? How many of the product can be transported and delivered at a time? What type/s of material have been used? How much does it cost to package a product?
- **Designing packaging to meet a Specification**
- **Symbols used on packaging.** What are they called? What do they mean?
- E.g. Mobius Loop, CE mark, FSC, Green Dot Logo, QR code

Graphics and Resistant Materials



- Ferrous and Non-Ferrous Metals
- Alloys
- Advantages and Disadvantages of CAD (Computer Aided Design)
- Advantages and Disadvantages of CAM (Computer Aided Manufacturing)
- Natural Fibres
- Numeracy Skills:
 - calculating the cost of materials, calculating area.



RESISTANT MATERIALS



- **USB Lamp Project**
- Why has **acrylic** been used to manufacture your lamp – what are its advantages/ properties?
- Which **tools** did you use to make your lamp – laser cutter, junior hacksaw, vice, craft knife
- How can you be **safe** in the **workshop** when carrying out these practical activities ? Goggles/apron
- **When designing** – remember to draw in pencil, label your ideas, add colour and outline your drawings !!!
- **Finally.....** Why are lots of everyday products like your lamp made from **plastic** – what are its advantages/disadvantages/ uses ???

Pupils who have opted for Graphics or RM need to revise the content for both of these subject areas

Year 9 Resistant Materials and Graphics Knowledge Organiser