

YR8 Graphics and Plastics Creating a clock for the Design Museum

Key words and vocabulary

Plastics	Brief	BAUHAUS	Planometric
Thermo plastic	Design Museum	RETRO DESIGN	Evaluate
Thermoset Plastic	Souvenir	MEMPHIS	Dimensions
Fossil Fuel	Design Movement	CAD	Packaging
Mouldable	ART DECO	Technical Drawing	Filter

Environment

How is plastic made? Is plastic sustainable – why? Why not? Justify your ideas

PUN

Primary User needs check list
 What does your User want?
 Task: Relate your Questions to your User to the Access FM headings

Techniques with CAD

CAD stands for Computer aided design where designers develop a template for a product to batch, mass or continually produced. This can be for packaging, parts of a product or for 3D modelling. CAD and CAM – all computer aided designs link to CAM, computer aided manufacture. Computer aided manufacture can be a printer, a laser cutter, a 3D printer, a vinyl cutter or a CNC machine.



CAD 2D Design Tools

What are the advantages of using CAD for a designer?

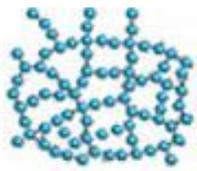
For a manufacturer?

Thermo and Thermo Set plastic



Thermoplastic

A **thermoplastic** is a material, usually a plastic polymer, which becomes more soft when heated and hard when cooled. **Thermoplastic** materials can be cooled and heated several times without any change in their chemistry or mechanical properties



Thermoset

Thermoset plastics contain polymers that cross-link together during the curing process to form an irreversible chemical bond. The cross-linking process eliminates the risk of the product re-melting when heat is applied, making thermosets ideal for high-heat applications such as electronics and appliances.

Design Movements: Art Deco, Bauhaus, Retro, Memphis



CAD



Safety Mat

CAM Laser Jet Printer



Safety Ruler



Safety Mat



Cold laminate

Evaluate

Evaluate your clock against your PUN

Get user feedback from your user about your clock