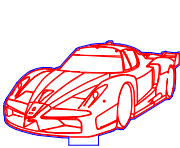


Y8 Graphics: Knowledge Organiser

Y8 Graphics Key Words

Contour	A path that is an even distance around another path
Line	Defines shape, outer edge of object
Logo	A symbol or design that identifies a brand
Euroslot	A slot punched in a packaged product to allow it to be hung on display
Inkjet Printer	A printer that sprays droplets of ink directly onto the paper or card
Surface Pattern	A decorative pattern used to enhance the look of a product
Card	Stiff paper over 220gsm in weight
Engrave	To create a path in the surface of a material
Net	A 2D diagram that folds into a 3D object
Annotation	An explanatory note added to design work
Acrylic	A thermoplastic which can be easily cut on the laser cutter
Template	A pre-set format for a document or file
Clip path	A path drawn to cut out an image in graphic software
Radius	The distance between the centre of a circle and the edge
Duplicate	To make an exact copy of something
Delete	To completely remove something

Snapshot



The Design Process

Design Brief	A statement outlining what is to be designed and made
Specifications	A detailed description of the design and materials used to make a product.
Research	Sourcing information for inspiration, investigation and analysis
Ideas	Selection of ideas of 2D and 3D visual communications
Development	Modifications and changes in response to feedback and evaluation against the brief
Final idea	A presentation drawing of chosen idea which satisfies the brief
Manufacture	Making the final outcome
Plan of Make	Type of diagram that represents the process of the product being made
Evaluation	Reviewing strengths and weaknesses of final product and design work

Thermoplastics

Can be re-heated and re-shaped in various ways. They become mouldable after reheating as they do not undergo significant chemical change. Reheating and shaping can be repeated. The bond between the molecules is weak and becomes weaker when reheated, allowing reshaping. These types of plastics can be recycled.

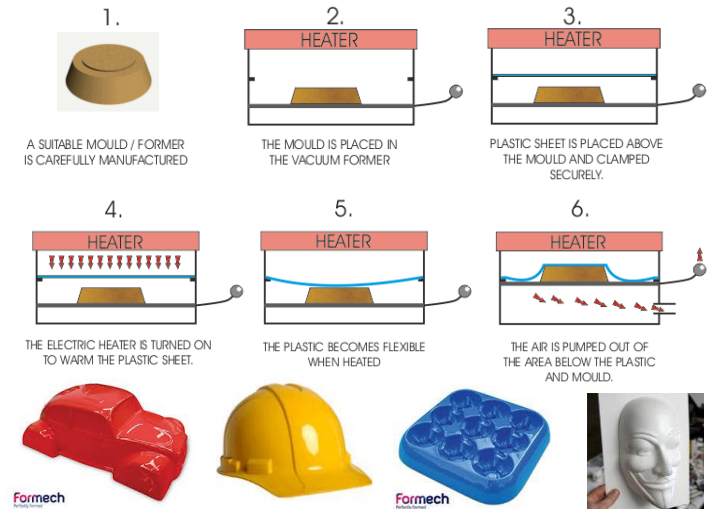
Heat > Liquify
Cool > Solidify



Vacuum Forming

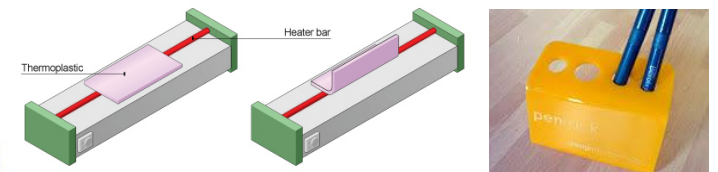
Vacuum forming is used to make many different products from thermoplastic sheets. The sheet is heated to make it flexible, formed over a mould, and then cooled to become hard again.

SEQUENCE DRAWING - VACUUM FORMING



Line Bending

Line bending involves heating a thermoplastic along a line using a heating element. The plastic softens as it heats, allowing it to be bent and cools retaining its shape.



See more on thermoplastics at:
Technologystudent.com and Plastipedia.co.uk

Common Thermoplastics:
Acrylic, PVC, HIPS, PET

Materials/Equipment
Plywood, card, double-sided tape,
laser cutter, line bending machine,
vacuum former