

# Keywords: Spring 2

## Product Design

### Topic Title: Product Design

**Introduction to the topic: Why are you learning it and how does it link to what you've learned before?**

**Manufacturing processes.**

**What lessons will you cover during the topic?**

**Manipulating materials, manufacturing techniques, uses and limits.**

Keyword	Definition
Vacuum Forming	A process where plastic is heated and air removed so the plastic forms around a mould
Polymer	Large molecule that plastics are made from
Fractional Distillation	Separates crude oil into useful hydrocarbons called monomers - the monomers are joined to create a polymer
Epoxy Resin	A type of adhesive
HIPS	High Impact Polystyrene, a plastic used for vacuum forming
Thermoforming	A type of plastic that can be heated and reformed multiple times
Thermosetting	A type of plastic that once formed is set and can not be reformed again
Stabilisers	These can be added to make plastic more resistant to heat and light
Plasticisers	These can be added to make plastic more flexible
Acrylic	A transparent plastic that is very strong but brittle