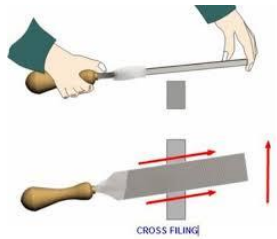
YEAR 9 PRODUCT DESIGN ROTATION JEWELLERY PROJECT

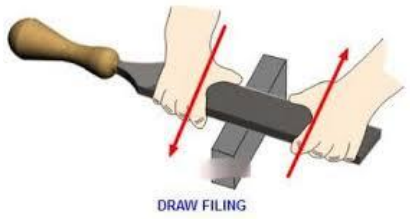
Acrylic – the type of plastic used in this project

- Acrylic is a very versatile material.
- Acrylic is a type of thermoplastic – this means that it can be heated to change it's shape.
- Acrylic is fairly easy to cut and shape using hand tools
- Acrylic can also be cut on the laser cutter to make detailed shapes
- Acrylic can be made in virtually any colour by adding a dye to the liquid plastic.

Names of Techniques

1. **Cross filing** – this is used to remove fairly large quantities of acrylic
2. **Draw filing** – this is used to remove scratches and marks from the edges of acrylic
3. **Polishing** – an abrasive polish is used to shine the edges of acrylic
4. **Line Bending –** using the strip heater acrylic can be bent at a particular point or line
5. **Oven Heating –** by heating the whole piece of acrylic it can be twisted and stretched
6. **Laser cutting –** using 2D design small shapes can be cut from acrylic





Different examples of Acrylic Jewellery

Laser cut images with chains used to represent leads

Necklace made with strips of twisted acrylic

Plectrum necklace

Tools and equipment used in this project	Description
Heat Proof Gloves 	MUST be worn when handling hot acrylic
Coping Saw 	A coping saw is used to cut wood OR acrylic. The thin blade allows you to cut out awkward shapes
Flat Files 	In this project flat files are needed to cross file AND draw file
Powered hand drill 	In this project a powered hand drill is required to drill SMALL holes in SMALL amounts of material
Needle files 	As the name suggests these are very small files used in jewellery making for filing small areas smooth
Strip heater	This is used to bend acrylic objects in a certain defined area
Chains, clasps and eyelets 	To be able to wear your acrylic jewellery you will need fittings such as chains, clasps and other small fittings.