All joints that use adhesives (glues) are permanent.

It is important that the correct adhesives are used for the materials being joined.

Important to make the areas being glued are as large as possible.

4 glues are needed to be learned

Polyvinyl acetate (PVA)

Contact adhesive

Epoxy resin

Tensol cement
**Contact adhesive**

**Properties**
- Contact adhesives stick on contact
- Used to glue large surface areas such as worktop surfaces
- Both surfaces coated with glue, left for 15-20 minutes then stuck together, hence the name contact adhesives
- Needs to be used in well ventilated areas

**Advantages**
- Sets in 20-30 minutes
- Works well on large flat surfaces
- Can be used to join dissimilar materials

**Disadvantages**
- Does not allow repositioning
- Gives off fumes which can result in illness
Polyvinyl acetate (PVA)

Properties

- Probably the most common type of woodworking glue.
- Easy to use and apply
- Very strong if the joints being used are a good fit
- Work should be clamped when glue is setting

Advantages

- Sets in 2-3 hours
- Excess glue easily removed with a damp cloth
- Does not stain
- Long shelf life

Disadvantages

- Most types are not water-proof
Epoxy resin

Properties
- Versatile but expensive
- Used to bond any clean dry materials
- Adhesive is supplied in two parts, a resin and a hardener.
- Mixed together in equal parts starts a chemical reaction.
- The glue starts to set immediately

Advantages
- Can be used to join dissimilar materials
- Good joint-filling properties
- Waterproof

Disadvantages
- Too expensive to use on large scale work
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Tensol cement

Properties

- This is only used for gluing acrylic
- A clear liquid with a solvent base which evaporates easily.
- Applied to the joint after it has been put together.
- Works by attacking the surface
- Not very strong so surface being glued needs to be large.

Advantages

- Creates a good bond between the surfaces.

Disadvantages

- Gives off fumes which can result in illness.
- Very smooth surfaces need to be roughened a bit.