

Year 8- Skills

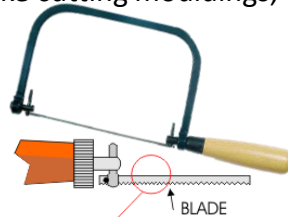
What is a boomerang?

A boomerang is a curved flat piece of wood that can be thrown so that it will return to the thrower, traditionally used by Australian Aboriginal people. Boomerangs are typically made of wood, though modern versions can also be made from other materials like plastic or carbon fibre.



What equipment will I be using?

A **coping saw** is used for cutting intricate or curved shapes in wood, plastic, or thin materials. It has a thin, narrow blade held under tension in a C-shaped frame, which allows for good movement compared to a regular saw. The blade is typically fine-toothed, making it ideal for detailed work like cutting mouldings, joints, or patterns.



Sandpaper is a type of abrasive material used for smoothing, polishing, or cleaning surfaces. Sandpaper is commonly used in woodworking and metalworking.



How is plywood manufactured?

Plywood is a type of manufactured board made from thin layers of wood that are glued together with the grain of each layer running in alternate directions (90 degree angle). This cross-grain structure gives plywood strength and durability, making it a versatile material used in construction and furniture-



What is aboriginal art?

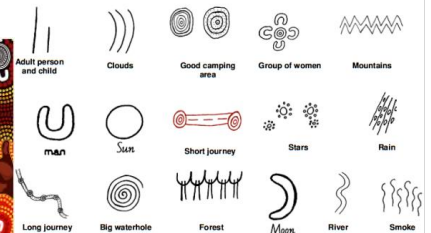
Aboriginal refers to the first people who lived in Australia, long before others arrived. They have their own special cultures, languages, and traditions that have been passed down for thousands of years. Aboriginal people are very connected to the land, and they have stories and art that help explain the world around them.

Key features of Aboriginal art:

Dot Painting: Dot painting, tiny dots of colour are used to create intricate patterns and symbols that represent stories, animals, and ancestral beings. The dots often form abstract designs that convey deeper meanings or maps of important locations.

Symbols: Aboriginal art is rich in symbolism, with different patterns and motifs representing different elements of the natural world, such as animals, plants, waterholes, and the land itself. Symbols can also represent ancestral spirits or Dreamtime stories—mythical narratives explaining the origins of the world, animals, and people.

1. **U shapes:** Often used to represent footprints or waterholes.
2. **Circles:** Can symbolize places or the presence of an ancestor.
3. **Lines and Tracks:** Represent journeys or paths taken by ancestral beings.



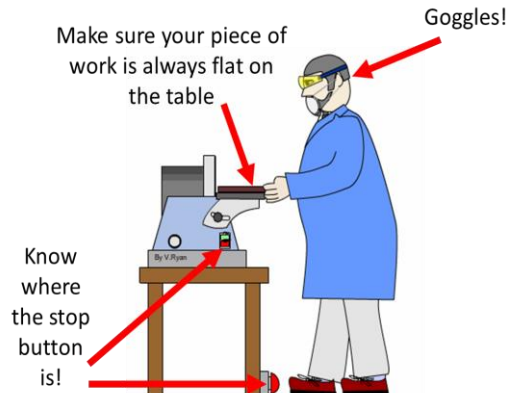
What is a belt sander?

A **belt sander** is a power tool used for smoothing or shaping surfaces. It works by using a continuous loop of sandpaper (the belt) that rotates around two drums. The user guides the sander over the surface to remove material, typically to smooth wood, metal, or plastic. Belt sanders are effective for quickly removing material.

Health and safety precaution when using a belt sander:

- Do not use pillar drill unless correctly inducted by your class teacher and your teacher is present to supervise you
- Remember to wear your personal protective equipment (PPE) (goggles and apron/ labcoat), hair must be tied up, ties must be tucked in
- Ensure extraction units are switched on
- Piece of work must be placed flat onto the belt sander bed before sanding
- Only one person should stand in yellow box when using pillar drill
- Press emergency stop (red button) in case of an emergency.
- Turn off belt sander after use

Belt sander



KEY WORDS

Template	A shaped piece of rigid material used as a pattern for processes such as cutting out, shaping, or drilling.
Environment	The surroundings or conditions in which a person, animal, or plant lives or operates
Torsion	The forces that occur when a material is being twisted
Vinyl	A synthetic resin or made from polyvinyl chloride
Composite	A material made by bonding two or more different materials together
Spray Paint	Paint held in an aerosol can for spraying on to a surface
Acrylic	Synthetic resins made from polymers of acrylic acid
Finite	A resource that will run out eventually, eg: crude oil
One Off Production	The manufacturing of a single product or item
Varnish	A resin dissolved in a liquid for applying on wood, metal, or other materials to form a hard, clear, shiny surface when dry.