

## Health and Safety: Machinery

### Scroll Saw



Only one person to operate the scroll saw at any time. Keep fingers and hands away from the moving blade. Always wear personal safety equipment. Always know where the emergency STOP button is to turn off the machine. Ensure the guard for the blade is in the correct place. Take your time when using this machine—never rush or work too quickly.

### Pillar Drill

Only one person operating the pillar drill at any time. Never touch the drill piece when in motion. Always wear personal safety equipment. Ensure all materials are clamped in place securely - use the hand vice or a clamp whenever possible. Ensure that the guard is always in place. Always know where the emergency STOP button is to turn off the machine.



Year  
9

Resistant  
Materials

## Equipment



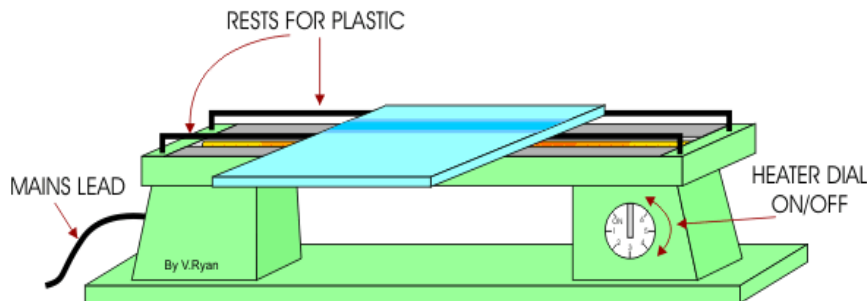
### Vacuum former



A method to mould sheet plastics into a variety of shapes, including Easter egg packaging, chocolate selection inserts and tooth brush packaging.

What is blister packaging?

### Line bender



## Materials covered in D&T

**Timbers**—Hardwood, softwood and manufactured Board

**Polymers**—Thermo and thermosetting polymers

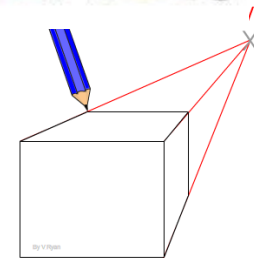
**Metals**—Ferrous, Non ferrous and Alloys

**Composite materials**—combination of 2 or more materials

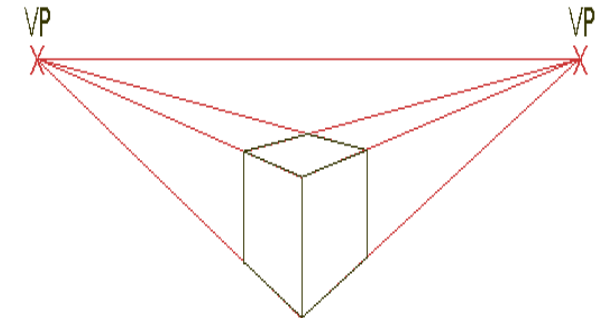
**Modern Materials**—developed for a specific application

**Smart materials**—Change their properties in response to a stimulus

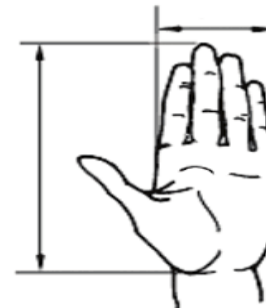
## Drawing Techniques



One Point perspective



2 point Perspective



## Keywords

**Aesthetics**—The way a product looks and feels

**Ergonomics**—The relation ship of a product with the user and environment. Safety and comfort focused.

**Anthropometrics**—Human sizes used to influence design