Machinery and Tools in the workshop

Try Square	A tool that is sued to draw 90° degree lines and check materials are square
Steel Rule	A steel rule is a measuring tool, it differs from a ruler as it starts from zero and is made from metal.
Bench hook	A bench hook is a piece a equipment that hooks on to a bench and is used to stop wood from slipping when cutting with a saw.
Fret Saw	A fret saw is a machine used to cut shapes out of wood and plastic.
Belt Sander	A belt sander is a machine that has an abrasive material on a belt and is used to sand material
Pillar Drill	A free standing machine that rotates a drill bit to make holes in different materials

1mm = 0.1cm

10mm = 1cm

50mm = 5cm

55mm = 5.5cm

100mm = 10cxm

Basic Skills: Measuring



To convert mm to cm x 10

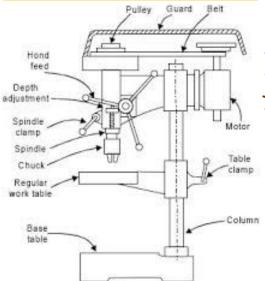
To convert cm to mm ÷ 10

MEASURING -Measuring in millimetres is more accurate than measuring in centimetres. When measuring in the workshop you will use a steel rule. Always check where the 'zero' is and start measuring from this point. There is an old saying that goes "measure twice, cut once". Always double check your measurements before you cut into your material

YEAR 6 Shipshape



Name the parts of the pillar drill:



DT Keywords

Research, analyse, design, develop, plan, consider, sketch, annotate, evaluate, render, join, modify, manufacture, health and safety, isometric, Working

SIDE ELEVATION

Can you name this hand tool?

RONT ELEVATION

Material Knowledge

In an emergency hit the stop button immediately

Always make sure you know how to use tools and machinery safely and correctly

.Always make sure you are wearing correct protective equipment at all times.

Make sure that any long hair is tied back, jewellery is removed and sleeves are rolled up.

One person on a machine at any time.

Only use equipment for the purpose for which it was designed for.

When a machine is in use do not cross the black and yellow tape.

Always keep fingers and hands well away from moving parts of a machine.

Never remove parts of a machine or guards.



hardwood trees which do not lose there leaves and Deciduous tress which loses there leaves in

tropical or sub-tropical countries such as South America

These are usually quite hard. They are broad leave trees and the seed are enclosed in the fruit that

> They generally grow in temperate climates including the British

They are slower growing trees it can take 100 years to grow fully

the tree produces

Tend to have a tighter grain They can be very Expensive. Most evergreens are found in

These are usually softer and easy to

The trees grow tall and straight which makes it easier for the manufacturer to cut long straight planks of wood

Evergreen trees which means they do not lose there leaves.

These grow quite faster and so are cheaper

There are 3 types of wood

Hardwoods

Manufactured boards (man made woods)

Manufactured

boards are timber

sheets which are

produced by gluing

wood layers or wood

fibres together. They tend to be made using

waste wood materials

Definition

from deciduous or broad-leafed tress. These are slow growing trees which years to grow

Name of wood

Mahogany

MDF medium density

Chipboard

Hardboard

Plywood

GUARD

They mainly grow in a coole climate like Canada

These cone baring trees are called conifers

They have a looser grain

They are often used as building material.

Name parts of the belt sander MOTOR EXTRACTION Name the parts of a fret saw

GUARD LOCKNUT For locking the guard GUARD in position ON/OFF SWITCHES RYAN the blade.

