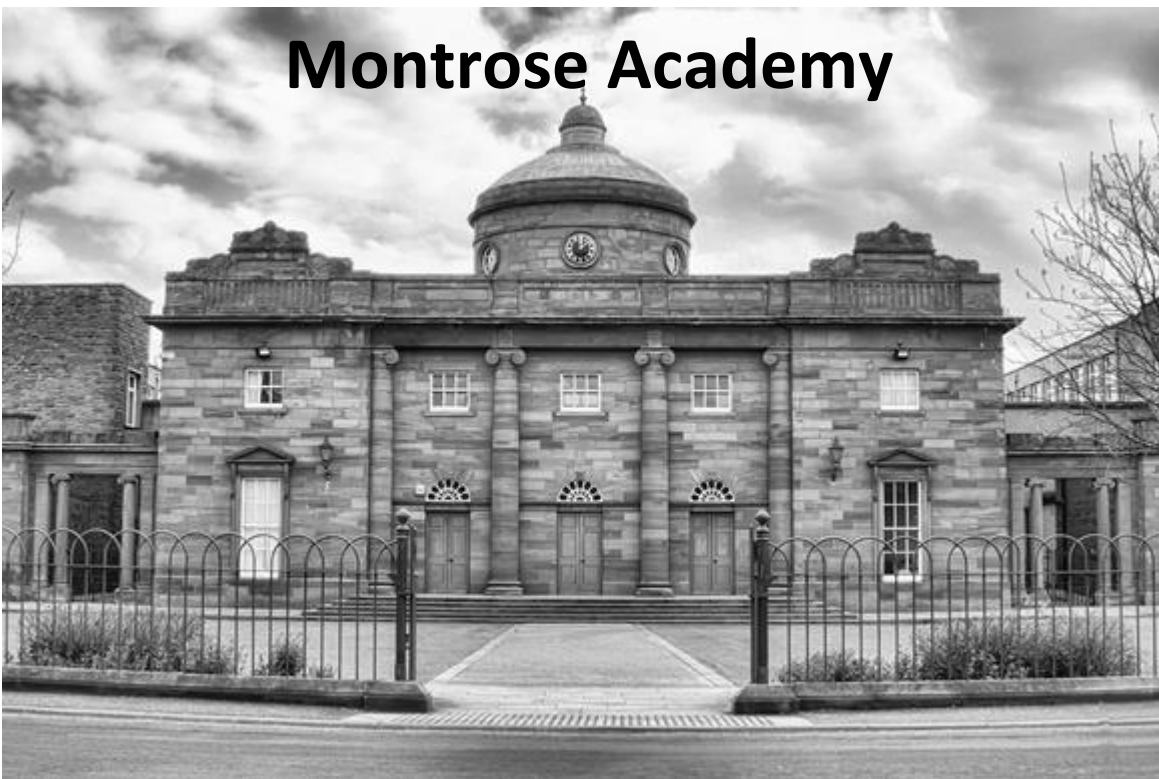


N5 Design & Manufacture

Woodworking Questions

Montrose Academy



Match the correct name with the correct plane. The first one has been done for you as an example

Block Plane



Combination Plane –



Jack Plane –



Rebate Plane –



Hand Router –



Spokeshave –



Shown below is a certain type of plane, name the plane and also draw an arrow pointing towards the nut or lever used for;



A –Depth Adjustment

B – Lateral Adjustment

Name of plane - _____

From the list of planes shown, select 2 and describe their use(s);

Plane Name -

Use(s) -

Plane Name -

Use(s) -

You are to select a finish for your wooden product, the specification you have been given for the finish is as follows;

- Must show the grain of the wood
- Must seal the wood
- Must not alter the colour of the wood

Answer –

Name a suitable finish for an exterior garden fence.

Shown below is a power drill, correctly label each feature on this drill.



State an advantage of having a torque limiter on a power drill?

Below are four different drill bits. Provide the name of each of these four drill bits.

During the manufacture process of the product shown here to the left, which drill bit would you have used to create a flat hole for the candle to sit in?



Answer -

An auger bit is most commonly used with what other tool?

You need to drill a hole with a radius of 23mm, name two different types of drill bits that could be used.

1. _____

2. _____

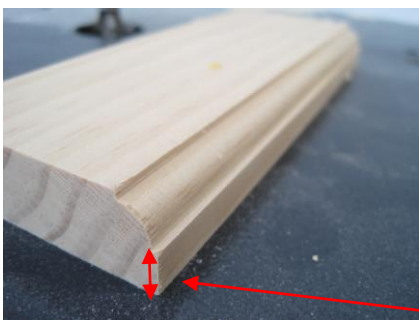
Name three things you should always remember to do when operating a jigsaw.

1.

2.

3.

The picture below shows a routed edge, name the tool used to create this.



Name of tool -

How could the tool be adjusted to ensure 10mm of material is left on this edge?

Correctly label each part of the following power tools.



A -

B -

C -



G

F

D -

E -

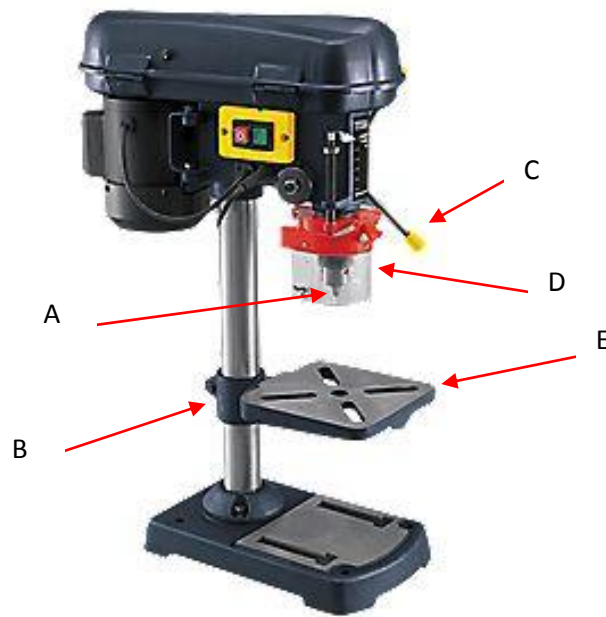
F -

G -

Name two pieces of safety equipment that should be worn with these machines at all times.

- 1. _____
- 2. _____

A pillar drill is shown below please label each part of the drill.



A - _____

B - _____

C - _____

D - _____

E - _____

With regards to safety list three things you must remember to do when operating and setting up the pillar drill.

1.

2.

3.

What machine would I use if I needed to cut some model materials such as balsa wood?

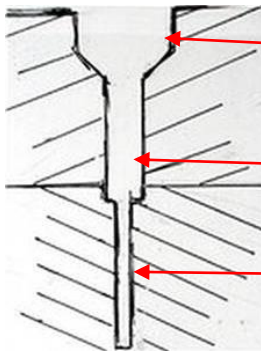
Why do fretsaws use thin blades?

Explain how a band facer works.

What could be used to help sand a piece of timber for a mitre joint?


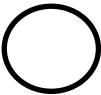

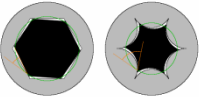
When using the mortise machine you must remember not to cut all the way through the wood. What could be adjusted to ensure this does not happen?

Name each of the following sections that make up a typical screw hole

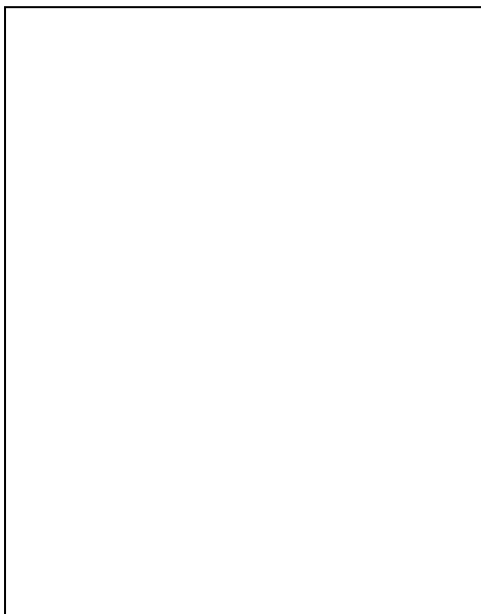


What is an advantage of using woodscrews?

Fill in the blanks in the following box.

Picture	Name	Information
		<p>A single groove is cut across the top to receive a straight-tipped screwdriver.</p>
	<p>Crosshead / Posidrive</p>	
		
		<p>These require special “keys” to operate. They tend to be used in the assembly of flat pack furniture. The 6 points further reduce the chance of tool slippage.</p>

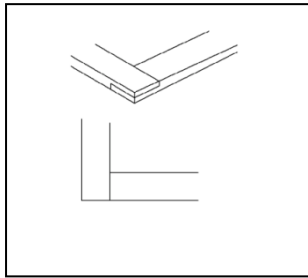
In the space given below please sketch and describe a countersunk screw.



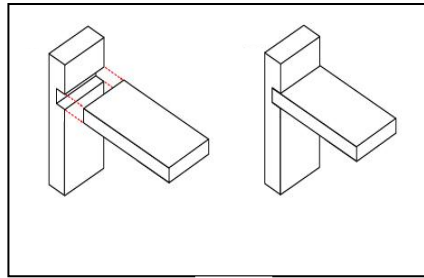
Correctly label each of the screw types shown below.



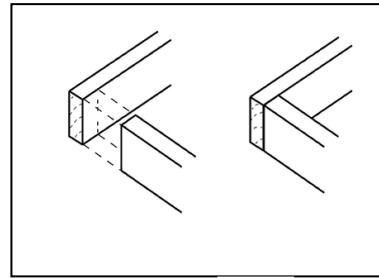
Knock down fittings are designed for which of the joints shown below.



A



B



C

Answer - _____

Give the name of the correct joint - _____

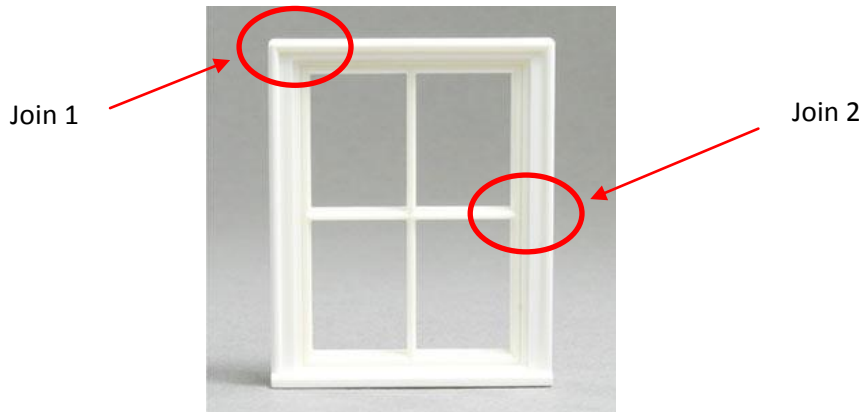
Name three joints you could use instead of this.

1. _____

2. _____

3. _____

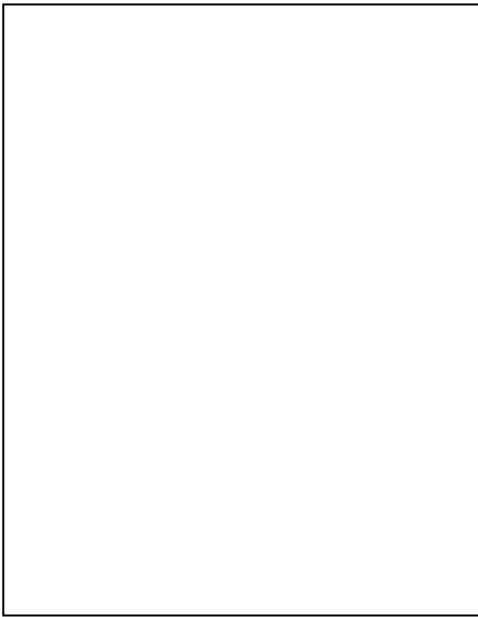
You have been asked to create the window frame shown below, suggest suitable flat frame construction joints and explain how they are made, there is space for sketches if required.



Suggestion for Join 1 - _____

Description: _____

Suggestion for Join 2 - _____

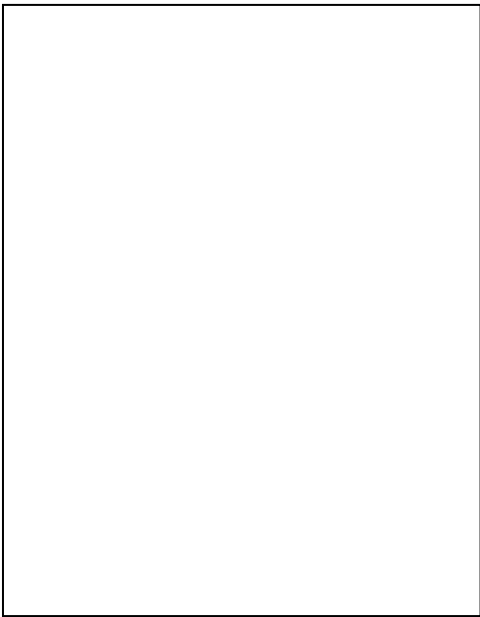


Description:

You have been asked to create the book shelf shown below suggest suitable carcass construction joints and explain how they are made, there is space for sketches if required.

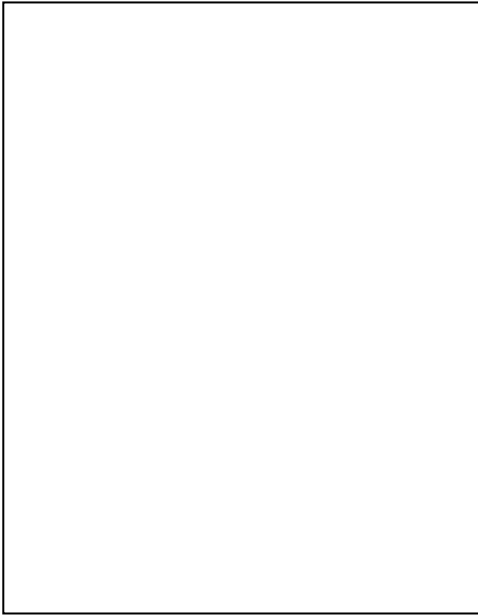


Suggestion for Join 1 - _____



Description: _____

Suggestion for Join 2 - _____



Description:

State 3 benefits that manufactured boards have brought to the mass market.

1.

2.

3.

Give the names of two knock down fittings that could be used in the place of a housing joint.

- 1. _____
- 2. _____

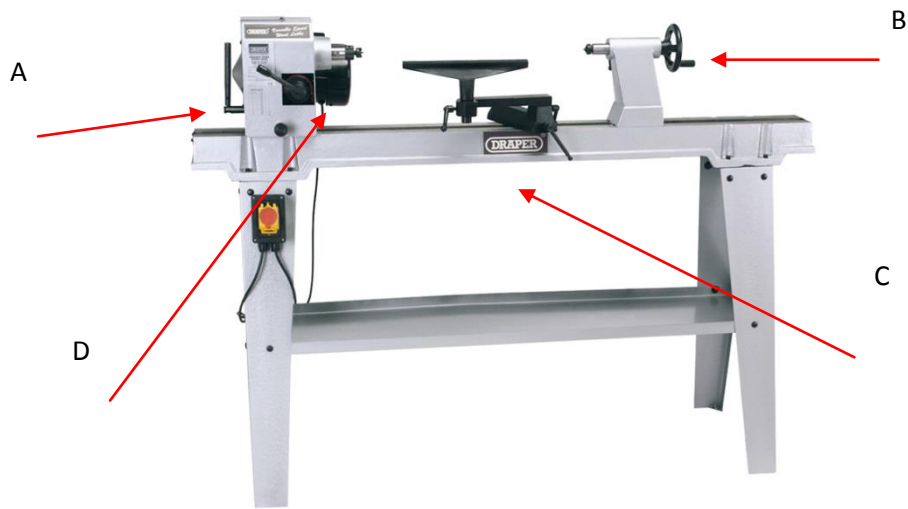
Select a suitable hinge for a door in a very modern and contemporary house.

Justify your choice.

Select a suitable type of handle for the drawer of a large oak coffee table.

Justify your choice.

Correctly label the wood lathe shown below.



A - _____

B - _____

C - _____

D - _____

Enter descriptions for the following lathe features.

Tail Stock -

Dead Centre -

Fork Centre -

Bed -

Spindle -

Correctly match the lathe tools with their names. The first one has been done for you as an example.



Spindle Gouge



Skew Chisel



Parting Chisel



Roughing Gouge



Scraper

Why should you cut down the diagonals of any piece of timber before it is placed on the lathe?

Why should you shave the edges from the timber before it is place on the lathe?

What tool could be used to shave the edges off?

Correctly name the two tools shown below and describe what they are used for.

Picture	Name	Use
