

Objectives

Know the primary sources of materials for producing natural & Manufactured Timbers.
Be able to recognise characteristics of different types of natural & Manufactured Timbers.
Understand the physical and working properties of different types of natural & Manufactured Timbers.

Use the bubbles below to explain the properties of Hardwoods

Hardwood



Name	Appearance	Image	Characteristics	Uses
Ash	Pale Brown/Cream			
Beech	Dense/close grain with a pinkish shade			
Mahogany	Rich reddish Brown			

Name	Appearance	Image	Characteristics	Uses
Balsa	Pale cream, an open grain.			
Oak	Light brown and variable grain			

Highlight Right!

STARTER – Can you match the types of Woods and Trees?



Which doesn't seem quite right?

Hardwoods are generally _____ (less likely to let water through) and have _____ than softwoods.
Many are very **hard wearing** and _____.
Hardwood comes in **many colours and unique grains**. This makes it very **aesthetically pleasing**.
The felling of some hardwoods is **illegal** due to _____.

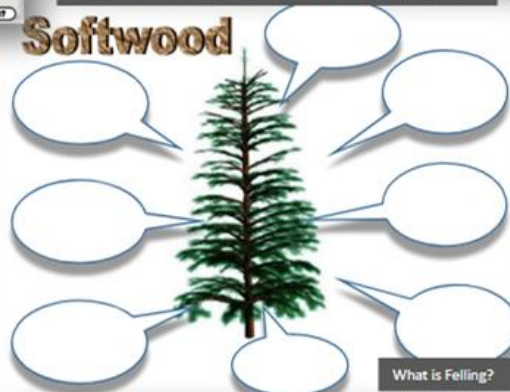
Softwoods are generally _____ (more likely to let water through) and have **more** _____ than Hardwoods.
Many are _____ although cedar contains natural oils which make them suitable for outside use.
Softwood comes in **many colours and unique grains**. It is often stained to look like hardwood. It is readily available and cheap. It is the _____ type due to its fast growth and is widely planted.

Manufactured Timbers are sheets of processed **natural timber waste products** or **veneers** with mixed in **adhesives**.
Made from _____, _____ and **recycled wood**.
Often they are covered with thin slices of wood called a _____.

Name	Appearance	Image	Characteristics	Uses
Larch	Pale to reddish brown with contrasting grain.			
Pine	Pale yellow to pale brown, attractive grain that darkens with age.			
Spruce	White/Cream with a finer grain.			

Use the bubbles below to explain the properties of Softwoods

Softwood



What is Felling?

Name	Appearance	Image	Characteristics	Uses
MDF Medium Density Fiberboard	Smooth, dull, veneered options. Dark to light brown.			
Plywood	Layers of veneered natural grain layered in opposite directions.			
Chipboard	Pale grey/brown. No grain with wood chip flecks. Usually covered with a layer such as melamine.			

NAME:

GCSE DESIGN & TECH

Natural & Manufactured Timbers