<u>1.12 Timbers</u>		<u>Natural Timbers:</u> Wood that has come from tree trunks, dried and cut into planks.				Manufactured Timbers: Constructed by combining timbers together to make a board		
<u>Properties:</u> Hardness: The ability of a material to withstand		 <u>Hardwood:</u> Broad leaf tree Seeds are in a fruit like an acorn 			 Soft Wood: Thin needle like leaf tree Seeds are in a cone Grow quickly used for 	Manufactured: • No grain • Using off cuts or waste material MDF: Cheap, Smooth ungrained surface good for painting or staining, Easy to		
	cutting and scratching (timber is generally quite soft and can be cut and scratched with metal tools).		Grow slowly taking more than 100 years. Deciduous		timber after 30 years Evergreen so keeps leaves all year Coniferous 	Plyv	vood:	machine Flat and structurally strong Surface looks like wood, Resistant to warping, cracking and twisting
	Toughness: The ability to withstand being hit (timber is quite a tough material, if you hit it with a hammer, it may dent but not break).		Beech: Oak:	spl Str	ough wood, Does not crack or inter easily, Hard ong and durable, Has an attract ain.	ive:	mois use Expe work	nsive, Not very resistant to ture, Not suitable for exterior nsive, Becoming rarer, Harder to with than some woods, odes iron and steel.
			Mahogany:		attractive finish, Quite easy to ork with			nsive, Environmental problems sourcing from tropical forests
A CONTRACTOR	Durability: The ability of a material to last a long time (timber that has been dried out and kept dry is durable).	Balsa: v		Ve	ery lightweight, Easy to cut		Much too soft and weak for most products.	
			Pine	Rea	ry durable, Easy to work asonably strong and lightweigh iite cheap	t <i>,</i>	Can warp, crack and splinter more than other woods	
			Cedar		tural oils make it resistant to wa d fungal growth			More expensive than pine and not as strong.

Key Terms:

Grain: Fibres that run the length of a tree trunk, which give it its strength and make distinctive patterns.Veneer: A thin slice of wood, about 1mm thick. Used as a decorative surface and to make plywood.Evergreen: A tree that keeps its leaves all year round