

REVISION CARDS - TREES TO MANUFACTURED PRODUCTS

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On behalf of The World Association of Technology Teachers

W.A.T.T.



World Association of Technology Teachers

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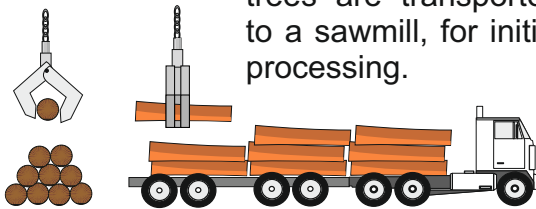
TREE FELLING

The first stage of converting natural wood to a product, is felling trees. Examples of natural woods are:



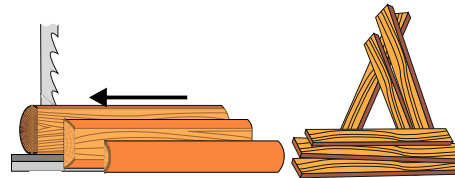
TRANSPORT TO SAWMILL

After a short time stored in the forest, to allow 'free water' to evaporate, the felled trees are transported to a sawmill, for initial processing.

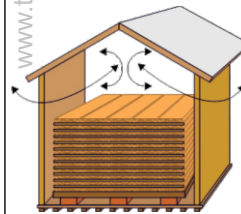


BREAKING DOWN / ROUGH SAWING IN THE SAWMILL

In the sawmill, the logs are rough sawn into boards, a process called conversion.



SEASONING



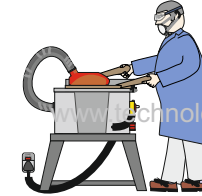
At this early stage, the boards contain too much water and they are allowed to dry out for several months, in seasoning sheds. A quicker way is to dry the wood in kilns.

RESAWING TO ACCURATE SIZES

Once the natural wood is seasoned, it is ready for machining and manufacturing, into products such as furniture. A circular saw may be used to cut the lengths and sections to accurate sizes. The wood is then planed to produce a smooth and accurate finish.

CIRCULAR SAW

PLANER



PRODUCTS

FURNITURE

ROOF TRUSS



USEFUL LINK

<http://www.technologystudent.com/joints/joindex.htm>

1. Describe the main stages of 'processing' a tree into a product.

5 marks

2. What is seasoning of natural wood and why is it necessary?

2 marks
