

NAME: _____

FORM/GROUP _____

NATURAL WOODS

1

NATURAL WOODS

WORLD DISTRIBUTION OF NATURAL WOODS

THE PREPARATION OF TIMBER - INCLUDING SEASONING

THE INITIAL COMMERCIAL PREPARATION OF NATURAL WOOD

STOCK FORMS



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WORLD DISTRIBUTION OF NATURAL WOODS

USEFUL LINK <https://www.technologystudent.com/joints/forests1.html>

1. Why the forests and woodlands of the world regarded as a precious natural resource?
As part of your answer you may wish to include a description of some of the products we use that are manufactured from natural wood.

2. What percentage of the worlds surface is covered by Tropical Rainforests?

3. List four woods found in the Tropical Rainforests. For each wood, name a product that is manufactured from it. You may need to research using the Internet.

4. List four woods found in the Boreal Forests. For each wood, name a product that is manufactured from it. You may need to research using the Internet.

5. List four woods found in the Temperate Forests. For each wood, name a product that is manufactured from it. You may need to research using the Internet.

6. Why are the Worlds Forests and Woodlands slowly declining / disappearing?

WORLD DISTRIBUTION OF NATURAL WOODS - 2

USEFUL LINK <https://www.technologystudent.com/joints/forests1.html>

On the global map outlines, shade the areas covered by Boreal Forests, Temperate Forests and Tropical Rainforests.

BOREAL FORESTS OF THE WORLD



RAIN FORESTS OF THE WORLD



TEMPERATE FORESTS OF THE WORLD



SUMMARY - RAW MATERIALS AND PROCESSING TO PRODUCT

USEFUL LINKS

<https://www.technologystudent.com/joints/forest3a.html>

<https://www.technologystudent.com/joints/forest4a.html>

<https://www.technologystudent.com/joints/forest5a.html>

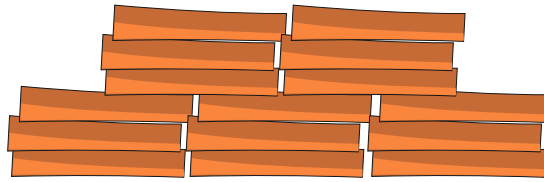
<https://www.technologystudent.com/joints/wdprocess1.html>

The incomplete drawings below, show the stages involved in the 'harvesting' of trees, processing of boards and the manufacture of wood based products. Complete the set of drawings, by sketching / pasting the missing stages.

STAGE ONE - TREE FELLING

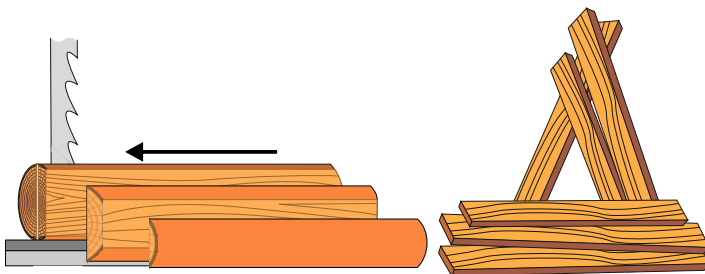


STAGE TWO - STORAGE



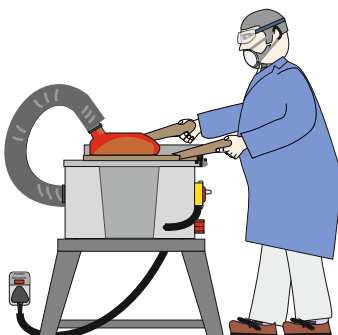
STAGE THREE - TRANSPORT TO SAWMILL

STAGE FOUR - BREAKING DOWN / ROUGH SAWING IN THE SAWMILL



STAGE FIVE - SEASONING

STAGE SIX - RESAWING TO ACCURATE SIZES



STAGE SEVEN - MANUFACTURE A PRODUCT

PREPARATION OF TIMBER

USEFUL LINKS

<https://www.technologystudent.com/joints/timber1.html>

<https://www.technologystudent.com/joints/timber2.html>

1. What is meant by the term 'rough sawn'?

2. When is it advantageous to use rough sawn timber rather than planed timber?

3. How does planed timber differ from rough sawn?

4. What is the meaning of the following terms?

PLANED ALL ROUND (PAR): _____

PLANED BOTH SIDES (PBS): _____

PLANED SQUARE EDGE (PSE): _____

ROUGH SAWN: _____

5. Describe with the aid of diagrams, how the edges and sides of a piece of planed timber are checked for accuracy.

AIR SEASONING

USEFUL LINK <https://www.technologystudent.com/joints/forest4a.html>

1. Describe how water is stored inside a tree.

2. What is the seasoning of natural wood?

3. Why is it necessary to season natural wood before it is used?

4. In the space below, draw a sketch of one method of seasoning natural wood. Add notes to explain your diagram.

KILN SEASONING

USEFUL LINK

<https://www.technologystudent.com/joints/forest5a.html>

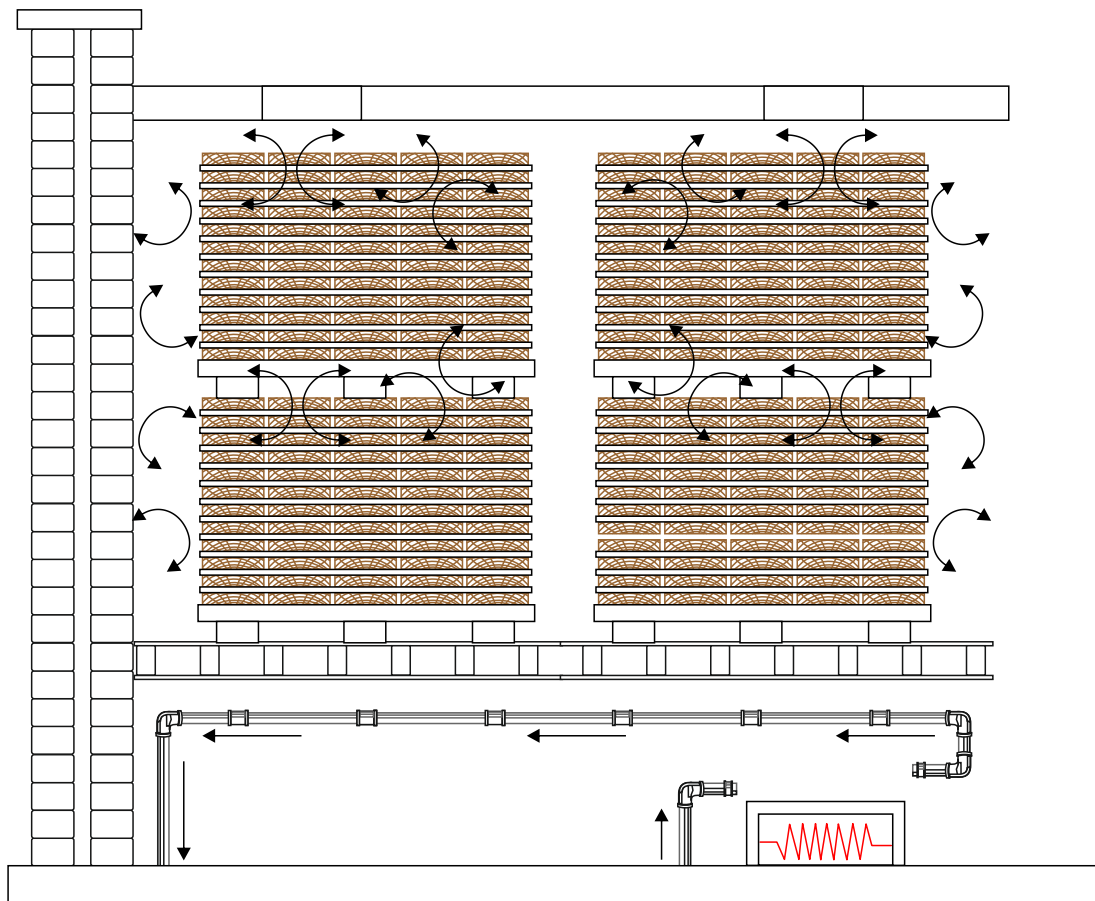
1. Explain / describe the processed called Kiln Seasoning.

2. Briefly describe and name two other types of natural wood seasoning, other than Air Seasoning.

A.

B.

3. Complete the drawing of the kiln below. Add labels to identify the various parts / aspects.



USEFUL LINKS

<https://www.technologystudent.com/joints/timber1.html>
<https://www.technologystudent.com/joints/timber2.html>

Timber is supplied in a number of forms.

1. What is a 'board'?

NOTES:

SKETCHES:

2. What is 'square section timber'?

NOTES:

SKETCHES:

3. What is 'dowel'?

NOTES:

SKETCHES:

3. What are manmade boards / sheets?

NOTES:

SKETCH WITH SIZES / DIMENSIONS:

4. Sketch shapes of sections of moulds /
mouldings, in the box below.



USEFUL LINKS

<https://www.technologystudent.com/joints/timber4.html>

1. What is veneer?

2. Describe with the aid of diagrams and notes, how veneer is produced.

3. Veneer is supplied in two forms. Name / describe each form.

FORM ONE: _____

FORM TWO: _____

4. Why is veneer applied to manmade boards?

5. Veneer can be ironed on to the edge of a board. Using notes and diagrams, describe the process.
