

WOOD AS A MATERIAL 1

TREE GROWTH

- 1 Wood is one of the worlds most valuable, versatile, and important natural resource materials.
- 2 Wood grows on trees.
- 3 The three main parts of any tree are; **the crown, the trunk, and the roots.**

- 4 Trees grow producing usable lumber through the process of **PHOTOSYNTHESIS**, which is
sunlight + water + carbon dioxide +
trace elements + nitrogen = a basic sugar (food) + oxygen



- 5 This basic sugar is used to produce wood made up of many different types of **cells**.
- 6 The two main types of trees and wood are **Hardwoods** and **Softwoods**.

Hardwoods

- ☞ lose their leaves in winter
- ☞ cells are short, fat and thick-walled

Softwoods.

- ☞ are evergreens
- ☞ cells are long, thin and thin-walled

- 7 The cells are arranged in a ring around the center or pith with one ring added each year therefore the name **annual rings**.