



Heartwood

I support, I support

Central core of the tree

Made of dense, dead wood

Provides strength



Taproot

Slurp, Slurp

Absorbs water and nutrients deep in the ground

Grows straight into the ground



Lateral Roots

Gurgle, Gurgle

Absorbs water and minerals at the surface

Spread out from the tree, covers a broad area

What we trip over when walking in the woods!



s a p w o o d

Gurgle, Slurp, Gurgle Slurp

Also know as "xylem"

Brings the water and minerals from the roots to the leaves

Older cells become part of the heartwood



Phloem

Food to the tree, Food to the tree

Also known as the "inner bark"

Carries sugar (sap) from the leaves to the rest of the tree

Can also carry sugar stored in the roots up through the tree



C a m b i u m

**New phloem, sapwood
and cambium**

Very thin layer of growing tissue

Makes new cells for phloem, sapwood, and cambium



Leaves

We make food, We make food

Food "factories"

Uses sunlight and chlorophyll to make sugars in a process called photosynthesis

Gases and water vapor passes through stomatas



Bark

We are bark, please keep out

**Protects tree from injury caused by fire, insects,
and animals**

Varies between tree species