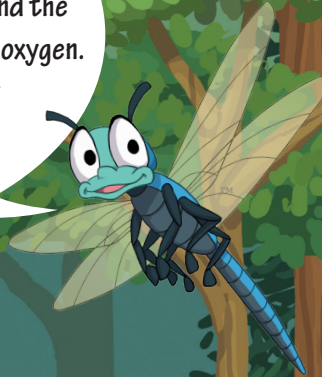




The Need for Trees

Trees are very important to people, animals, insects, fungi, and even other trees. This is because trees provide so many things for people and the forest, including shelter, habitat, food and oxygen. This adventure will help you identify six of the most common trees found along this trail

For your safety, stay on the trail and be aware of your surroundings. Poison ivy climbs up the trunks of trees, too... so if you see a hairy vine, don't hug that tree!



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Kids in Parks is a program of the

All trees start out as seeds that will sprout into seedlings.

A sapling is the next stage of a tree's life. Seedlings become saplings when they reach four feet tall.

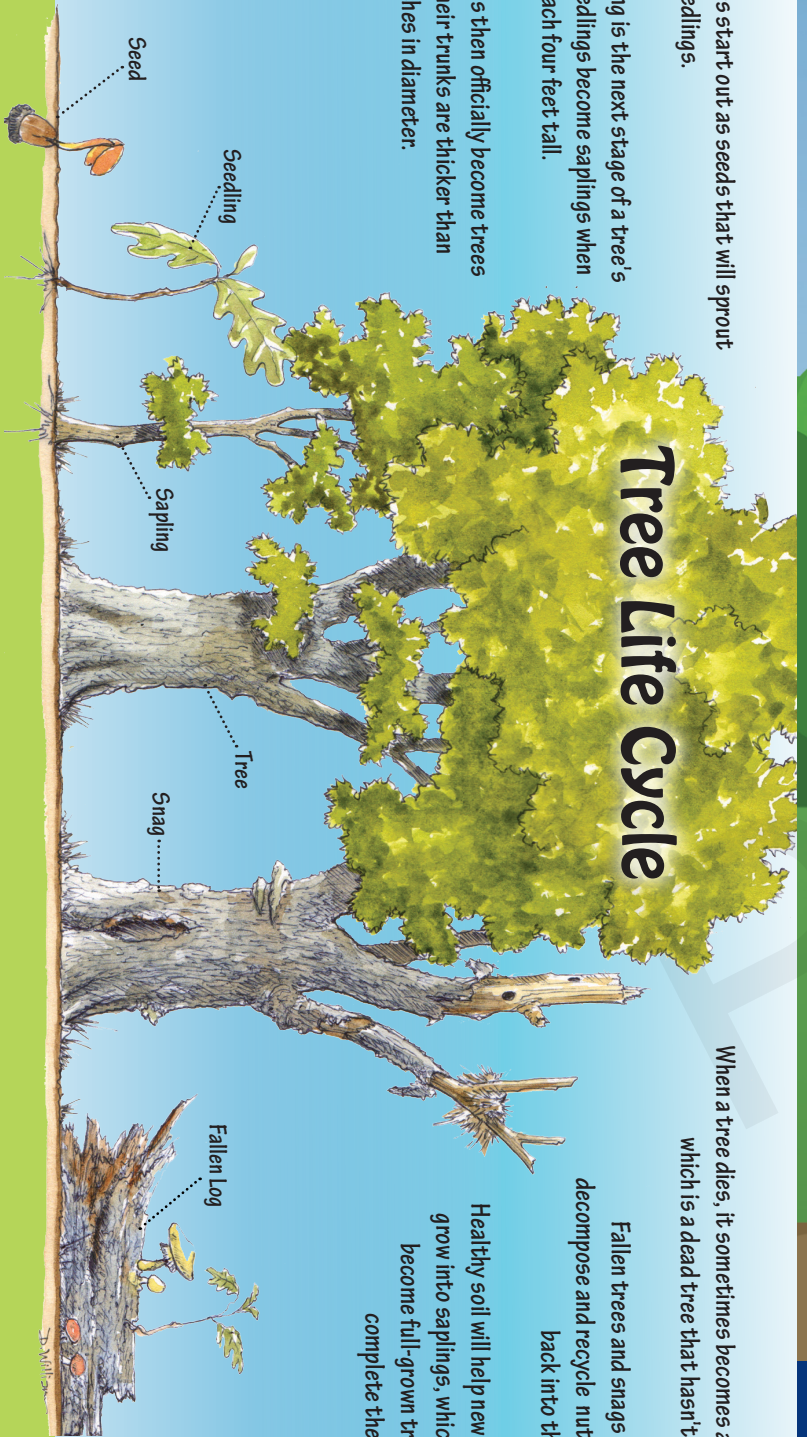
Saplings then officially become trees when their trunks are thicker than four inches in diameter.

Tree Life Cycle

When a tree dies, it sometimes becomes a snag, which is a dead tree that hasn't fallen.

Fallen trees and snags slowly decompose and recycle nutrients back into the soil.

Healthy soil will help new seeds grow into saplings, which then become full-grown trees to complete the cycle.



Can you find a... Seed? ___ Seedling? ___ Sapling? ___ Tree? ___ Snag? ___ Fallen Log? ___

● **Dogwood** (*Cornus florida*)



The dogwood is a small, low-branched tree with checkered bark and oval leaves. It likes to grow beneath taller trees and is most recognizable in the early spring when its flowers appear. During the fall, the dogwood will turn bright red before it loses its leaves, and will bear small clusters of red berries. These berries are eaten by many animals from September to December.

● **Red Maple** (*Acer rubrum*)



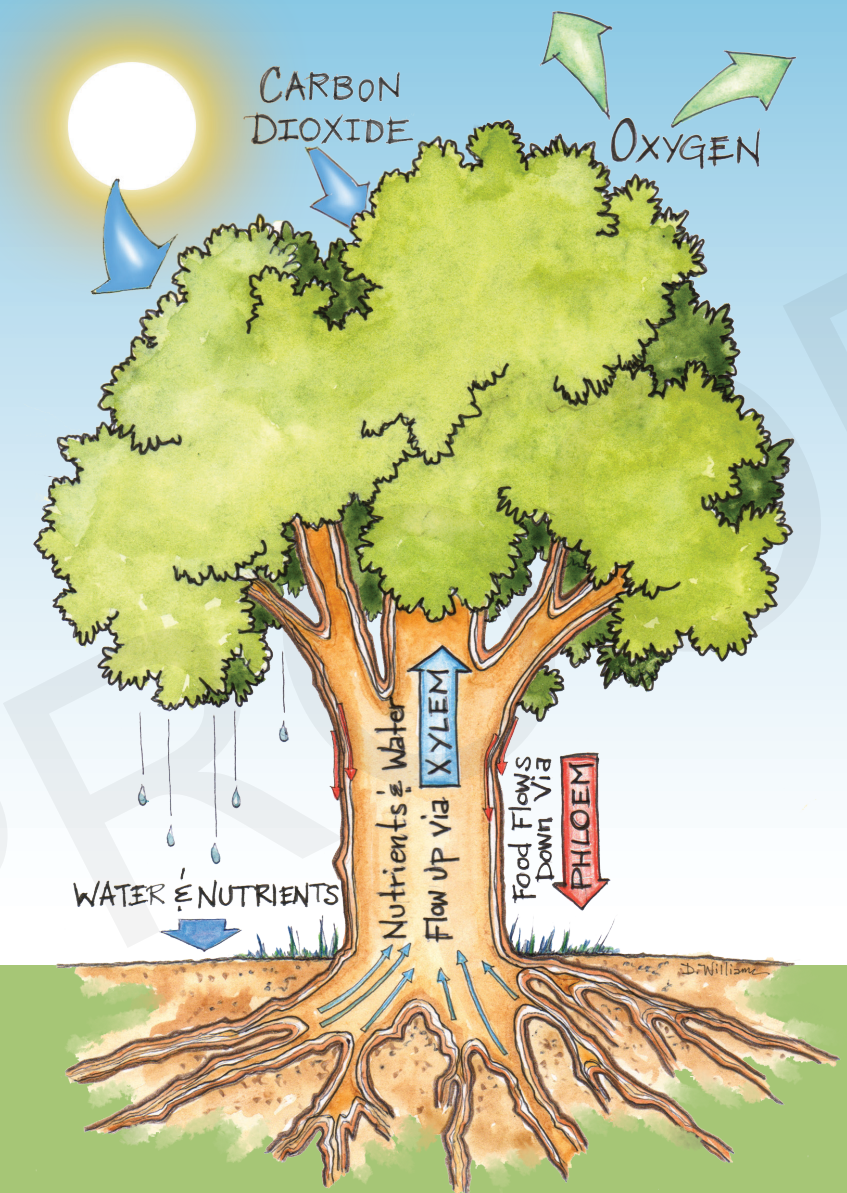
Able to grow in almost any soil condition, the red maple is one of the most abundant and widespread trees in eastern North America. With red twigs, buds, flowers, and seeds, it's easy to see how the red maple got its name. Red maple wood is used to make parts of guitars, banjos, drums, and other musical instruments because of its flexibility, sturdiness, and beautiful coloration.

● **American Beech** (*Fagus grandifolia*)



With its extremely smooth, light gray bark and leaves with serrated edges, the American beech is a very easy tree to identify. The fruits (beech nuts) are eaten by a large variety of birds and mammals, including ducks, blue jays, deer, black bears and foxes. Beech wood is used commercially for flooring, furniture, plywood, railroad ties, paper pulp and heating.

The Need to Know: How Trees Grow



Plants and trees have the ability to make their own food in a process known as **photosynthesis**. They do this by sucking water and nutrients from the soil up through their xylem and into their leaves. The water and nutrients are combined with carbon dioxide and sunlight to make a sugary food called **glucose**. This food then travels down through the phloem to the rest of the tree, so it can grow.

Illustrations by David Williams, Wingin' it Works

● **Eastern Hemlock** (*Tsuga canadensis*)



A very shade-tolerant tree, the eastern hemlock has short, rounded needles and cones about the size of a nickel. Over the past several decades, the eastern hemlock has been in decline due to the hemlock woolly adelgid, a tiny sap-sucking insect that was accidentally introduced from Asia. The woolly adelgid makes egg sacks that look like tiny tufts of wool on the tree's twigs.

● **White Oak** (*Quercus alba*)



The leaves of the white oak have rounded lobes, and the bark is light gray and scaly on older trees. The acorns are elongated with a shallow cap, and have a sweet taste, which makes them a favorite food for deer, bear, turkeys, squirrels and other wildlife. Because of the water-tight quality of the wood, white oak was valued in olden times for shipbuilding, and is still used today to make barrels.

● **White Pine** (*Pinus strobus*)



With an extremely straight trunk, needle leaves in **fascicles** (bundles) of five and long skinny cones, the eastern white pine is easy to identify. This tree has long been used as a source of food and medicine. The needles are high in vitamin C and are used to make tisane, an herbal tea. Deer and rabbits eat the foliage and songbirds and mice graze on the seeds. White pine is also a valuable lumber tree.