Conservation Trees

Each year, there are 1.5 billion tree seedlings planted in the U.S. - that's more than 5 new trees for each American, and nearly 2,000 for every bear!

A windbreak can reduce wind velocity by as much as 70 percent. If wind is reduced, you may use at least 15 percent less heating fuel in your home.

There are 747 million acres of forest land in the United States.

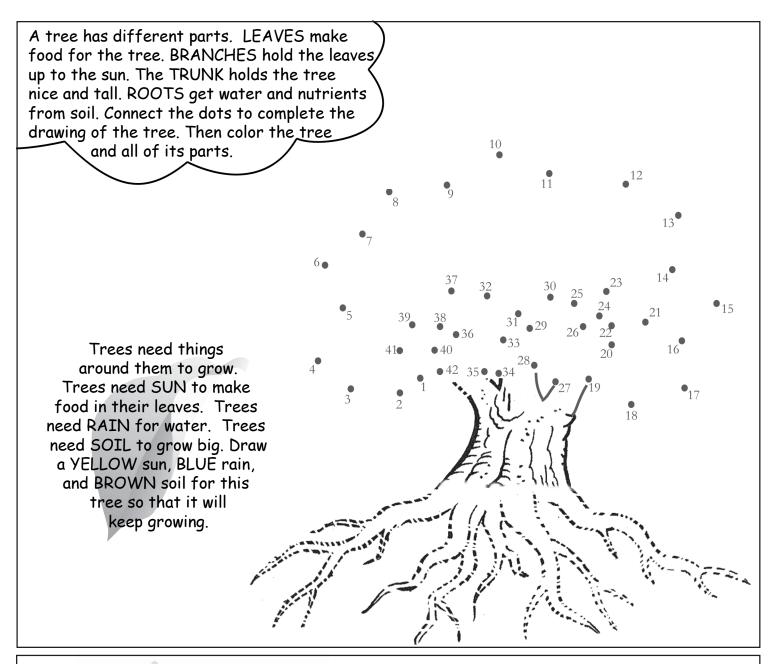
Montana has 22.5 million acres of forest land - only three percent of the national total.

As of the year 2000, 9.8 billion acres of forest covered the earth. That's almost 30 percent of earth's total land area.

The single oldest living thing on Earth is a tree, a 4,700 year-old bristlecone pine tree in Nevada. It was growing when the Egyptians built the pyramids!



Look inside to learn more about trees!



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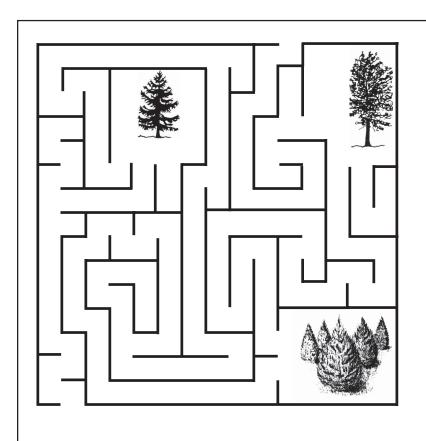
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Many of the things we use everyday come from trees. You might be surprised by some of the things made from wood or by products of trees.

Find the words from the list in the word search. Can you think of more products you use that come from trees? Make a list of the products and make your own word search to share with classmates.

Carpet Furniture Paper
Clothes Lumber Pencils
Fruit Medicine Rubber
Fuel Paint Toys



Trees make your town a better place to live. There are many places to plant trees, however there are also some things to keep in mind when planting a tree.

Be sure to find out where any underground utility lines are, make sure your tree will have plenty of room to grow, and choose the right type of tree. How do you know if it is the right tree? You can find more information at your local nursery. Landscape professionals should be able to tell you where a tree will grow healthy and strong.

Trees give us benefits every day. Sometimes we take for granted all we get from trees. But when you start adding it up, the gifts from trees are amazing! Solve these problems to see the benefits from one tree. For these problems, assume that this tree will live for 50 years.

This oak tree produces 5,475 acorns in one year. If one squirrel needs 5 acorns a day, how many squirrels can this tree feed for one year?
______squirrels

Trees transform carbon dioxide into oxygen that we need to breathe. If this one tree makes enough oxygen each day to fill 2 houses that measure 1800 square feet, how many houses full of oxygen will it produce over its lifetime? (Assume its oxygen production is steady. In reality, the rate varies with the growth of the tree.) houses full

Trees add water vapor to the air through transpiration. If an acre of trees can transpire 600 tons of water per day, and there are 40 trees per acre, how many tons of water will one tree transpire during the months of May, June, July, and August?

tons

This tree adds 400 pounds of leaves to the soil each year. By holding soil with its roots, and by slowing the fall of rain with its leaves, the tree also prevents 100 pounds of soil from eroding each year. After 12 years, by how many tons of soil has this tree enriched this location?

_____tons

5) Windbreak, 6) Shade, 7) trees, 10) erosion $\overline{5}$) windbreak, 6)

Answers: Math (pg. 3) - 1) 3 squirrels, 2) 36,500 houses full, 3) 1845 tons, 4) 3 tons Crossword Puzzle (pg.4) - Across: 2) photosynthesis, 5) water quality, 8) organic, 9) diversity, 11) benefit, 12) yields, 13) fun, Down: 1) hiking, 3) velocity, 4) habitat,

| 8. Trees add material that help 9. Species is important to their survival. 11. Another from photosynthes atmosphere. | ecause roots filter water as it moves toward ps to improve the soil. he many different organisms that depend on sis is that trees sequester excess carbon present the sequeste | trees for sent in the |
|---|--|--------------------------------|
| 13. Trees are to climb, use as forts, | os from drying and erosion, crop will i . and plav in. | ncrease. |
| | Down | |
| Town regis | Woodlands provide people with fun opport as, hunting, and bird watching. Trees' leaves and branches slow wind In wildlife, trees act as a source and cover. A row of trees planted to reduce wind error protect livestock, and provide wildlife food a One way to keep your home cooler is to plant for Landscapers have many choices to make we to improve aesthetics. | e of food sion, and cover is |
| 10. When wind is slowed, the level of soil | il also decreases. | |

We would like to thank the National Association of Conservation Districts for allowing us to use some of the activities developed for The Gift of Trees, Soil & Water Stewardship 2002, educational materials. To find out about these materials contact your local conservation district or NACD at www.nacdnet.org or 1-800-825-5547, ext. 32. Also visit our website at www.mt.nrcs.usda.gov

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