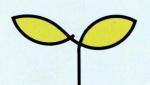
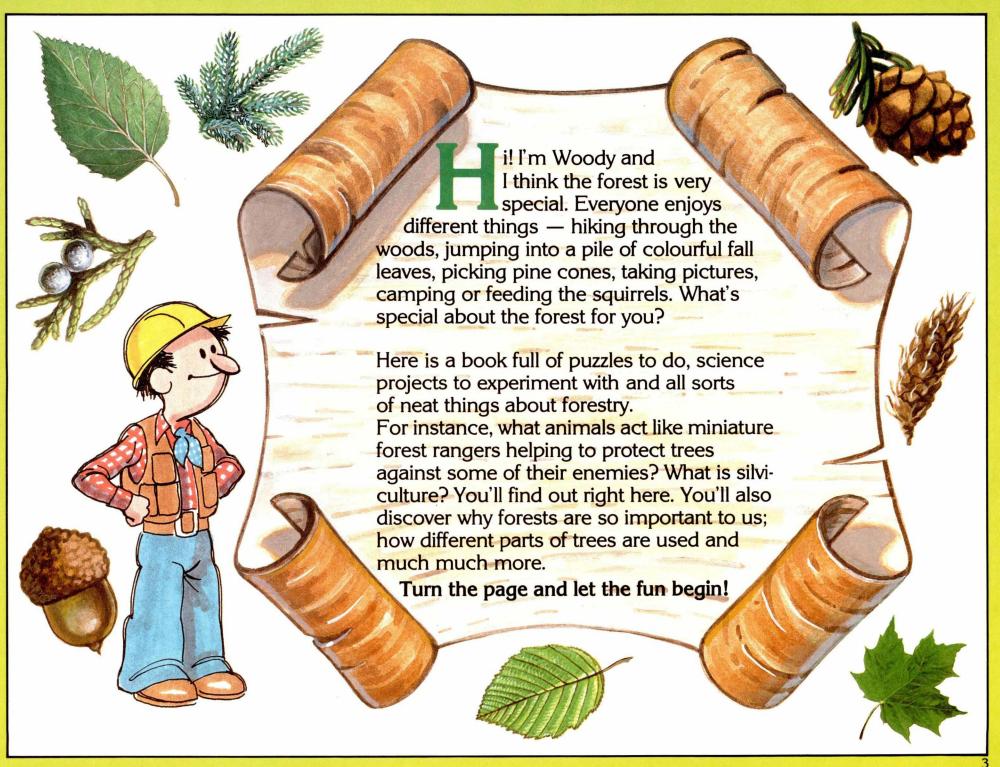
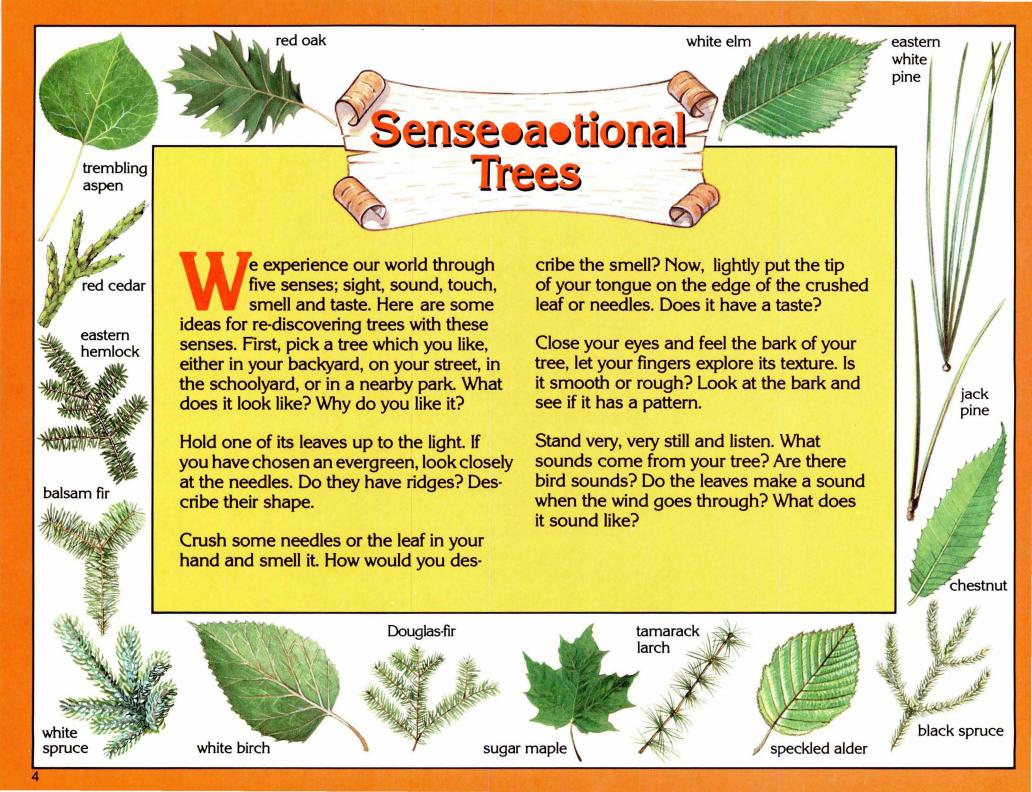


TREE CHEERS LUJYJJY LUJY



This book was produced especially for you by the Canadian Forestry Service. We believe that forests are beautiful places full of adventure and recreation and that they need managing. Every day we do forestry research to find better ways to manage, use and enjoy our Canadian forests. We hope this book will help us to share our love for the forests with you.



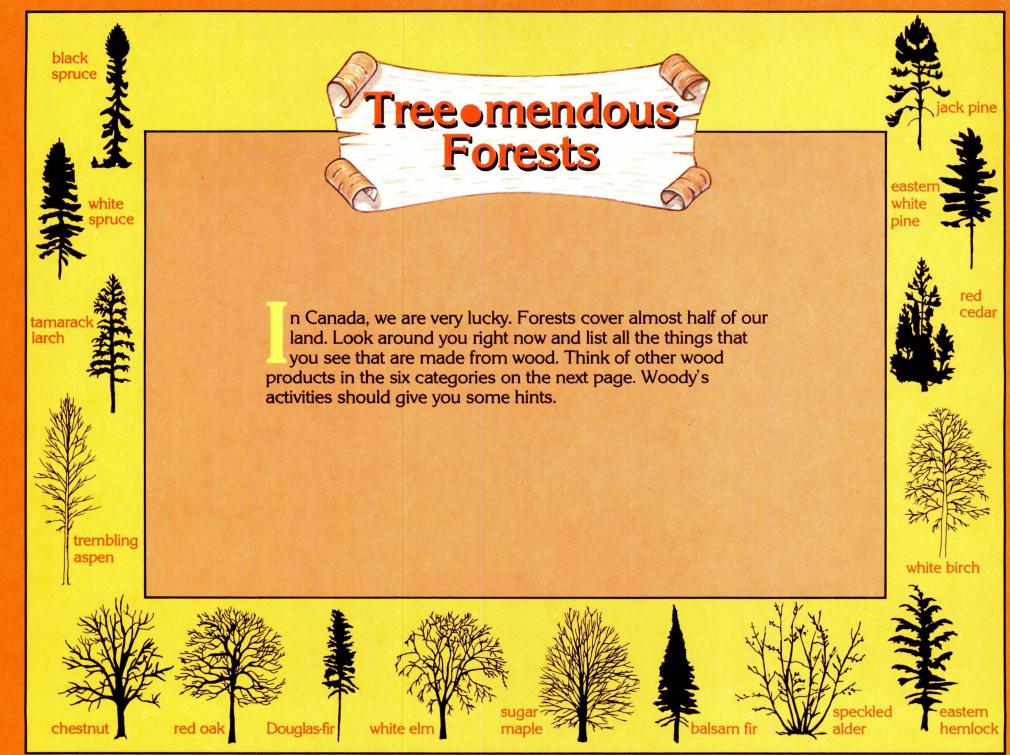


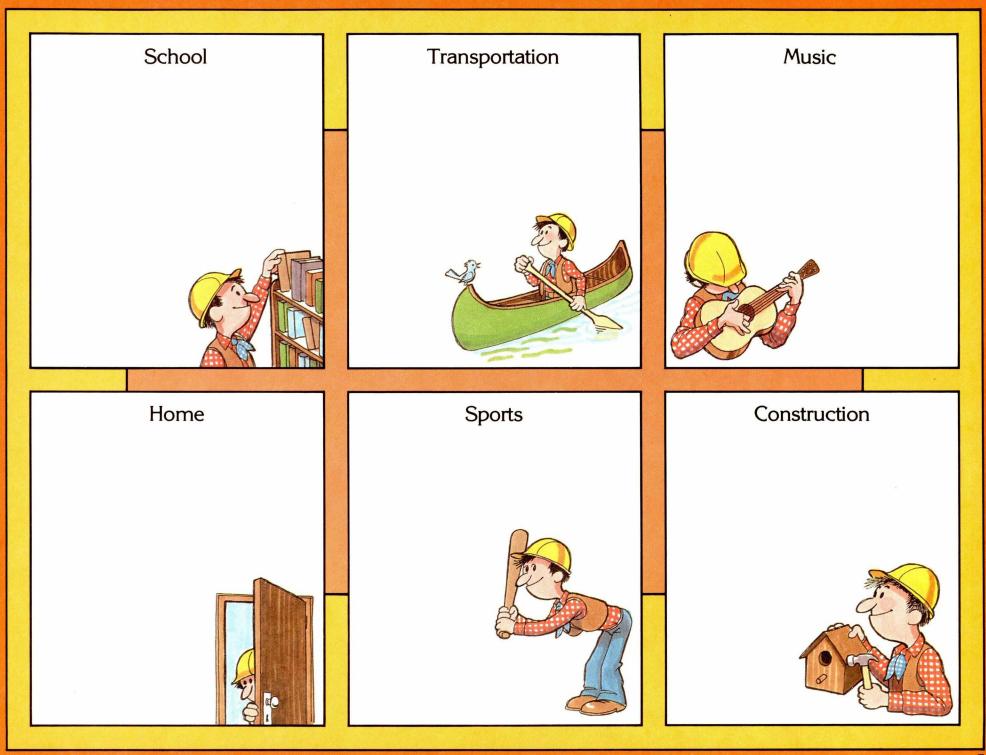
Draw The Shape of Your Tree

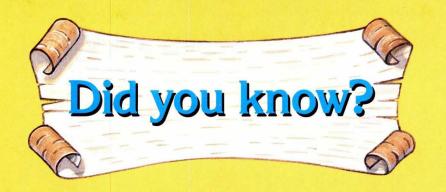
Draw One of The Leaves

Describe How the Bark Feels and Looks (make up new words if you want)









here are over 130 species of trees in Canada.

Almost everyone has at least one piece of clothing that comes from wood! When wood is reduced to a pulp, it can be used to make rayon and other fibres that are then woven into cloth.

- All trees belong to one of two categories: deciduous or coniferous. Deciduous trees usually lose their leaves every year and their wood is known as hardwood. Coniferous trees have cones which contain their seeds and they usually remain green throughout the year. They are also called evergreens and their wood is known as softwood.
- Bowling pins, hockey sticks, baseball bats, lacrosse, tennis and racquetball equipment all have wood in them.
- Early settlers in Canada used dried beech leaves to fill their mattresses, because the leaves gave more comfort than straw.

- Explosives, record albums, camera film, wigs and cellophane wrap all have something in common. You guessed it! They come from wood! These chemical products and others come from cellulose which comes from wood pulp.
- The spruce tree has a gum which is used to make candy, chewing gum and medicine.
- Some trees grow so slowly that it takes over 200 years for them to reach a size large enough to cut.
- The wood of the black willow is used for making polo balls.
- Some wood transmits sound vibration better than any other material and is used to make musical instruments.
- Automobile wheels used to have wooden spokes.
- YOU can get involved in a tree planting project! Check the Sources and Resources section at the back of this book to find out more.









- Trees have three major enemies: fire, insects and disease.
- Canada supplies about a third of the world's newsprint. The comic strips and newspaper we read are printed on newsprint, which is a product of our forests.
- Indians used the roots of some trees for making fire by friction.
- Tea made from cedar or spruce twigs was used to treat scurvy, a human disease caused by lack of vitamin C.
- A Ray Gun Probe device is used to detect forest fires. It is an infra-red scanner which is sensitive to

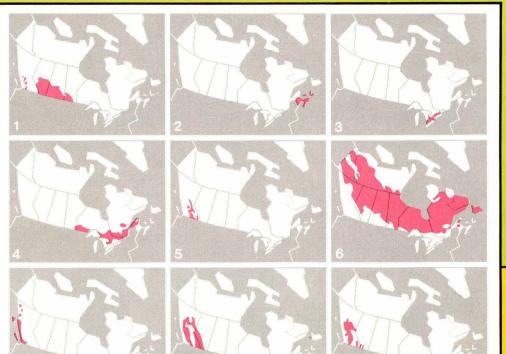
heat and can be used on the ground or from an airplane or helicopter.

- 1. Grasslands
- 2. Acadian
- 3. Deciduous
- 4. Great Lakes-St. Lawrence
- 5. Columbia
- 6. Boreal
- 7. Coast
- 8. Subalpine
- 9. Montane



- 80% of forest fires are caused by people and every year Canada loses an average of almost one million hectares of forest because of fires.
- Insects can help keep the forest floor clean by eating dead or decaying wood that falls to the ground, but some insects can be tree killers.
- Birds act as miniature forest managers by eating insects and keeping their populations down, so that they are not harmful to the forest.
- There are nine different forest regions in Canada: Grasslands, Acadian, Deciduous, Great Lakes-St. Lawrence, Columbia, Boreal, Coast, Subalpine and

Montane. Look on the map and note which forest region you live in!





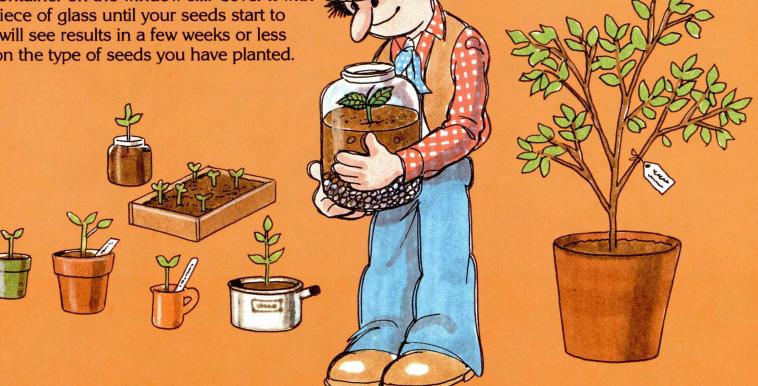


It is fun to start a collection of different tree seeds, label them and store them in a collection box.

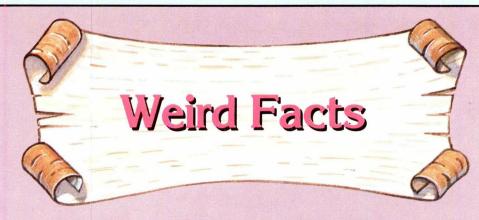
You can even use fresh seeds to grow our own little trees. Start with a layer of pebbles in a glass container or pot. Add sandy soil until the pot is almost full and press down on the soil. Then put your seeds in. Cover them with a centimeter of soil and press down again. Keep the soil moist, but not wet and leave your container on the window sill. Cover it with a paper or piece of glass until your seeds start to sprout. You will see results in a few weeks or less depending on the type of seeds you have planted.

In a reforestation program, the seedlings (that's what you get after your seeds have sprouted) are usually kept in nursery beds for about two years before they are strong enough to be planted in

areas that have been harvested for timber or destroyed by wildfire. Think of all the things you have done in the last two years. That is a long time!





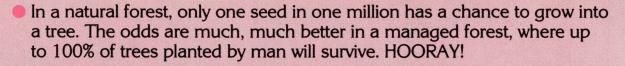




orest managers sometimes set fires to prevent accidental fires! That may seem weird but after a forest area has been harvested, there are a lot of branches, twigs and debris left on the ground. This is a potential fire hazard. Forest managers will either set fire to the whole area in a "broadcast burn" or they will pile the debris into rows and set smaller fires to these. This does two things: it cleans the area and it prepares the soil for reforestation.

- Sick trees in the forest usually cannot be cured! There is forestry research being done in this field right now, but today, this is still an unfortunate fact.
- Arbutus and holly trees do not shed all their leaves in the autumn but they are classed as deciduous trees, because they do not have cones.
- The three most popular drinks in the world are coffee, tea and cocoa. All three are products of trees.
- There is a strange looking tree in the African forests called a baobab. Its trunk is a huge water tank that stores 4000 litres or more of fresh water.

More Weird Facts



- If a tree's roots get too much water, the roots will drown and the tree will die. Cells in the roots need oxygen which they get from air spaces in the soil.
- The larch tree is special because it has cones, therefore it is a coniferous tree, but it sheds all its needles in the fall of each year so it is not an evergreen!
- Some trees, like the Douglas-fir, can have bark that is 26 cm thick!
- If you hold a group of pine needles with your fingertips they will always feel round. Spruce needles feel square and fir needles always feel flat.
 Cedar has scales on its needles, so it will feel scaly to your fingers.
- pine needles come in groups or clusters of two, three or five. The white Pine has needles in groups of five which coincides with the number of letters in the word "white".





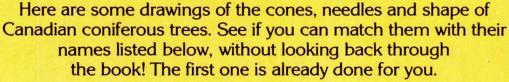












JACK PINE
WHITE SPRUCE
DOUGLAS-FIR
EASTERN RED CEDAR
TAMARACK LARCH

EASTERN WHITE PINE BALSAM FIR BLACK SPRUCE EASTERN HEMLOCK

Answers are on page 20.









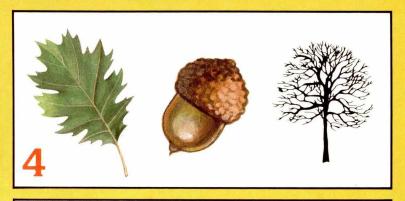




These are the leaves, seeds and shapes of seven Canadian deciduous trees. See if you can match these to their proper names without looking back through the book.

SUGAR MAPLE WHITE BIRCH WHITE ELM TREMBLING ASPEN CHESTNUT SPECKLED ALDER RED OAK

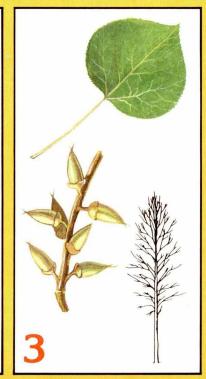
Answers are on page 20.















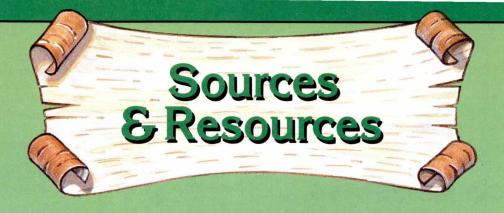
Super Challenger Word Search

These words are all in this word search game. See if you can find them all. Circle each letter in each word you find. Some of the words are written backwards as well as up and down and every which way. You are really a super challenger if you get them all!

SILVICULTURE	TAPE	SEEDLINGS
REFORESTATION	HARVESTING	PINE
INSECTS	BOARD FOOT	RENEWABL
BARK	CONES	INVENTORY
SPECIES	FIR	ASH
POPLAR	FRUIT	STEM
ELM	WOOD	BEECH
NEEDLES	MAPLE	SEEDS
ROOTS	BRANCH	SOIL
LOG	OAK	CEDAR
SHARP	NUT	EARTH
TWIGS	SAP	BUD
TREES*		

* (This word is so important, it is in there twice. Find both of them.) There's a secret message too! After you've found all the words, write down the leftover letters starting from the top left hand corner, moving left to right. The secret message is on page 20.

E	S	I	L	V	I	C	J	L	Т	U	R	E	Н
P	E	С	E	S	P	0	P	L	Α	R	E	S	Α
Α	Е	Е	A	Н	C	N	Α	R	В	F	F	0	R
T	D	D	V	Α	0	E	Α	R	T	Н	0	I	V
P	L	Α	E	R	R	S	E	S	U	T	R	L	E
I	I	R	S	P	E	C	I	E	S	E	E	D	S
Ν	Z	Z	E	臼	D	L	E	S	L	Μ	S	Α	Т
S	G	V	E	D	J	В	Z	P	Z	U	T	Α	I
E	S	R	E	Z	E	W	A	В	L	E	Α	K	Ν
С	L	0	G	N	S	M	S	E	Ε	R	T	R	G
T	S	G	I	W	T	G	Н	0	Α	K	I	Α	E
S	S	Α	P	T	0	0	F	D	R	Α	0	В	Е
T	R	E	E	S	0	0	R	I	M	E	N	N	L
F	R	D	I	Т	R	T	D	Y	R	S	T	E	M



Need more information on trees and forests? Want to get involved?

A number of organizations provide different kinds of forest information; some sponsor programs especially for young people.

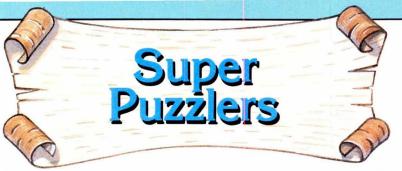
For more about the Canadian Forestry Service (CFS), write to the CFS Enquiry Centre, Ottawa K1A 0H3, or contact one of the eight CFS research establishments located in Victoria, B.C.; Edmonton, Alberta; Sault Ste. Marie and Chalk River, Ontario; Ste.-Foy, Québec; Fredericton, New Brunswick; and St. John's, Newfoundland.

Your provincial department of forests or natural resources is a good source of information on forestry and tree-planting programs.

Information may also be obtained from the Canadian Forestry Association's headquarters at Suite 203, 185 Somerset St. West, Ottawa K2P 0J2 and from its member associations in every province except Prince Edward Island.

In British Columbia, Alberta, Ontario and New Brunswick, Junior Forest Warden and Junior Ranger programs are sponsored by both provincial governments and Forestry Associations.

Other organizations sponsoring forestry and treeplanting projects or providing information include: the National Survival Institute, 53 Queen St., Suite 27, Ottawa K1P 5C5; Canadian Pulp & Paper Association, 2300 Sun Life Building, Montréal, Qué. H3B 2X9; KATIMAVIK, 2270 ave. Pierre-Dupuy, Cité du Havre, Montréal, Qué. H3C 3R4; Boy Scouts, Girl Guides and 4-H Clubs in all provinces.



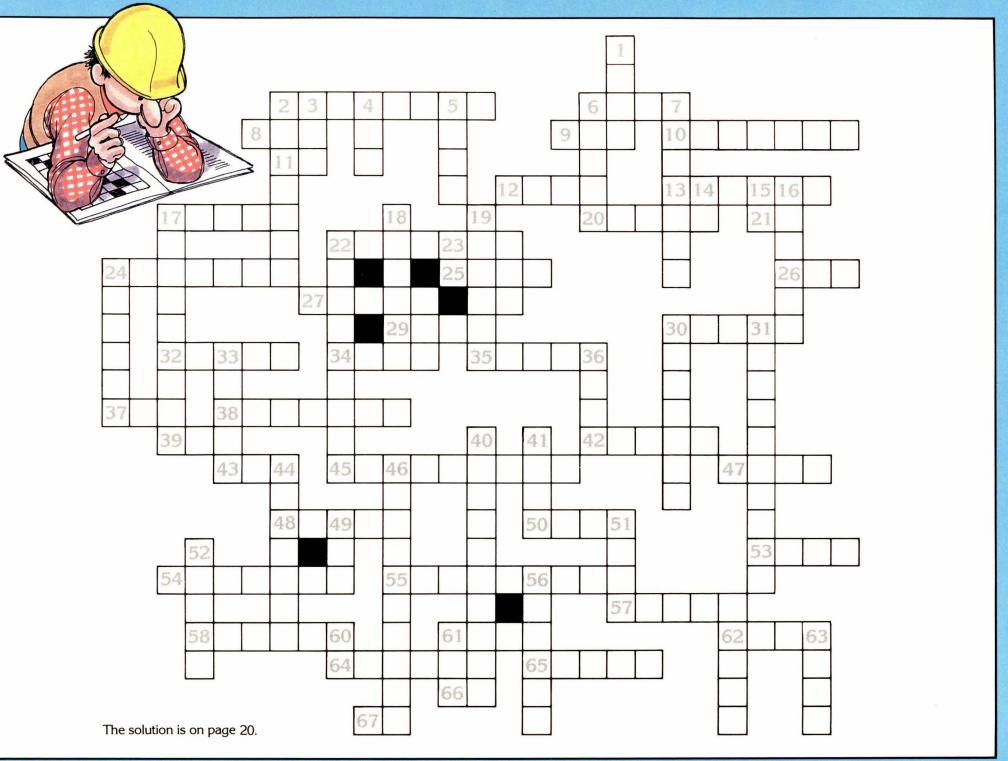
Forest Products Crossword

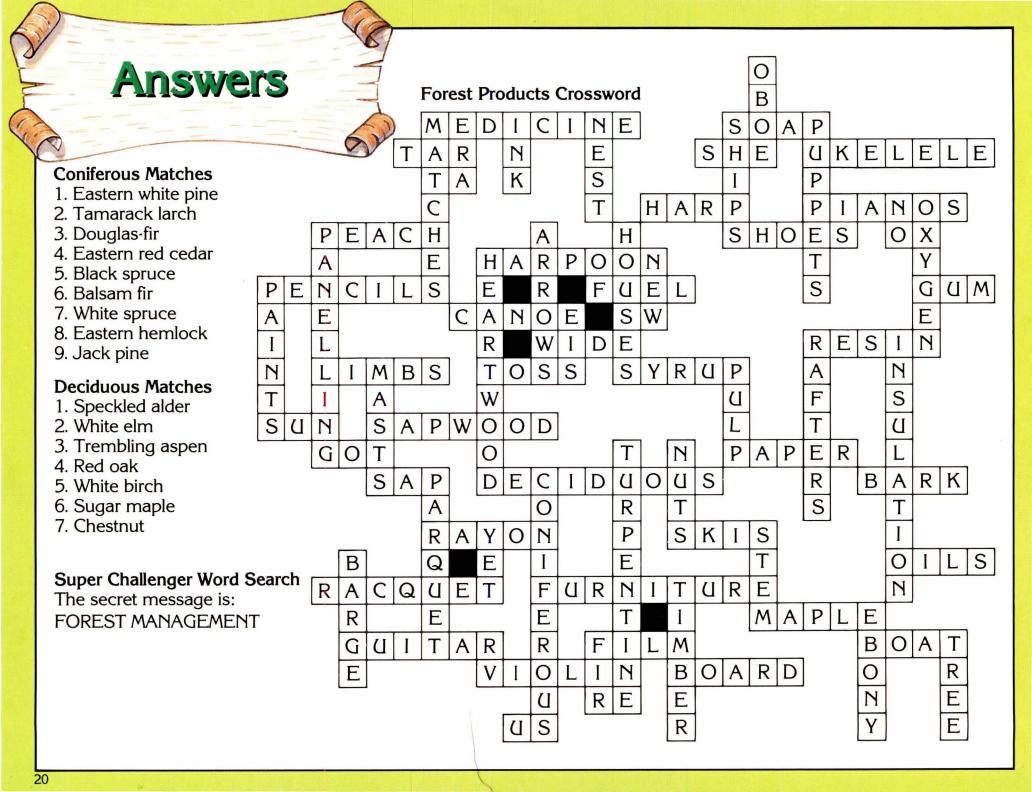
Down

- 1. A woodwind orchestral instrument.
- 2. They come in handy but are definitely not to be played with.
- 3. A long period of time.
- 4. Liquid used in writing.
- 5. A bird's home.
- 6. Columbus had three of these large vessels that travel on the seas.
- 7. Toy dolls that can be controlled by strings.
- 14. Woody ___ walking through the forest.
- 15. Opposite of yes.
- 16. We breathe it in and trees help to supply it.
- 17. A type of wooden covering for walls.
- 18. Some people still hunt with a bow and _____
- 19. Buildings we live in that rely on forest products.
- 22. The core part of a tree which gives it strength and durability.
- 23. The name _____ this tree is birch.
- 24. Liquids that are often used to colour walls.
- 30. The sloping beams used in roofs.
- 31. Used inside walls to keep out the cold.
- 33. Long wooden poles used to hold the sails on ships.
- 36. Soft substance used to make paper.
- 40. Type of strong smelling oil used to thin 24 down.
- 41. Types of seeds, sometimes delicious, a favourite among squirrels.
- 44. Flooring of wooden blocks arranged in a pattern.
- 46. The classification for trees that produce cones.
- 49. Is it ready? Not _____
- 51. Part of a leaf that connects it to the twig or branch.
- 52. Cleopatra had one and used it to float down the Nile.
- 56. Wood that has been prepared for building or carpentry.
- 58. Hard heavy black wood from a tropical tree of the same name.
- 60. Short form for "Recreational Vehicle".
- 61. Type of coniferous tree.
- 63. Tracing your roots means tracking your family ______.

Across

- 2. A substance prescribed by doctors which has healing properties and is not always very tasty.
- 6. You use this in your bath.
- 8. A dark, thick liquid from wood that is used on roads; not great with feathers.
- 9. Female version of "he".
- 10. Small stringed musical instrument used in Hawaii.
- 11. British slang for "thank-you".
- 12. Angels play this larged stringed orchestral instrument.
- 13. Elton John and Billy Joel both play these.
- 17. Fuzzy fruit.
- 20. In Holland some of these are made of wood.
- 21. Large animal used for pulling heavy things.
- 22. Spear with rope attached; rhymes with balloon.
- 24. You use one everyday and should be using one right now to write your answers.
- 25. Source of energy and heat.
- 26. You can chew this, but not in school.
- 27. Made of wood; used on water for fun and transport.
- 29. Opposite of narrow.
- 30. A natural adhesive substance from fir and pine trees; rhymes with cousin.
- 32. Sometimes branches are called the ______ of a tree.
- 34. Scottish contest using a large wooden pole: Caber _____
- 35. Great on pancakes and used to make sugar!
- 37. Every plant needs air, water, nutrients and _____
- 38. The part of a tree through which water and nutrients move from the roots to the crown.
- 39. Obtained.
- 42. You can shred it, colour it, cut it, wear it, shape it, fold it and burn it, but usually you write on it.
- 43. Juice that circulates in 38 across.
- 45. The classification for trees that shed their leaves annually.
- 47. The "skin" of a tree.
- 48. A type of fiber or cloth made from cellulose; rhymes with nylon.
- 50. Long, narrow pieces of wood strapped on your feet for a winter sport.
- 53. Type of liquids that burn, treat wood, are used in perfume and paint and candy.
- 54. Squash and tennis are known as ______ sports.
- 55. The movable contents of a room; usually made of wood.
- 57. A type of tree and part of the Canadian flag.
- 58. It's a classical, it's Spanish, it's electric and it's made with wood. It's a musical instrument.
- 61. It features stars, sound, light and action and is also a forest product.
- 62. Small vessel for transportation over water; rhymes with goat.
- 64. A musical instrument you'll need a bow to play.
- 65. Long thin wooden slab; rhymes with lord.
- 66. Short form for "regarding".
- 67. You and me.







Credits
Concept and text: Bevelander & Company
Illustrations and graphics: Acart Graphic Services Inc.



Government of Canada

Gouvernement du Canada

Canadian Forestry Service Service canadien des forêts

