



# CAREERS EXPLORATION

## BIG IDEAS

- Forest research and management involves professionals with backgrounds in many fields, including forestry, biology, wildlife, soils, water, land management, urban planning, engineering, sociology, geography, technology, environmental education, and chemistry. (Subconcept 52)

## OBJECTIVES

Upon completion of this lesson, students will be able to:

- Name six careers that are forestry-related.
- Explain the types of duties that are associated with different types of forestry-related careers.

## SUBJECT AREAS

Arts, Language Arts, Social Studies

## LESSON/ACTIVITY TIME

- Total Lesson Time: 60 minutes
- Time Breakdown:
  - Introduction.....5 minutes
  - Activity 1 .....25 minutes
  - Activity 2 .....15 minutes
  - Conclusion.....15 minutes

## TEACHING SITE

Classroom

## NUTSHELL

In this lesson, students learn about six professionals in Wisconsin with careers that are forestry-related. They read or listen to descriptions of them, do a word search activity, and match the name of the career to the duties associated with it. Finally, students draw a picture of themselves in the career that most interests them.

## BACKGROUND INFORMATION

There is a wide array of forestry-related careers. They range from direct care of trees to landscape planning to the processing and production of lumber and products. One of the fastest growing specialty areas in forestry is urban forestry, where people are involved in caring for trees in urban and suburban areas. In Wisconsin, the forest products industry is the second largest industry in the state (agriculture is the first). There are approximately 1,800 forest product companies that employ 99,000 people in Wisconsin. The paper industry employs 52,000 workers and indirectly supports 125,350 jobs.

Careers in forestry-related fields generally require some type of higher education due to the level of science and technology used. Education may include an advanced degree and/or technical training. Well-developed people skills are also important for those in forestry-related careers. Communication with the public and professionals in other natural resource fields is important when managing resources.

Helping students to become aware of natural resource careers, such as those in forestry, gives them options for the future. Forestry-related jobs are important to the social, economic, and environmental health of our state.

## VOCABULARY

**Associate Director, Land Trust:** A person who works to protect land, plants, and animals for the future.

**Ecologist:** A person who studies how forest parts work together and how humans fit in.

**Nursery Manager:** A person who is in charge of planting many tree seeds and helping them grow.



**Orchard Owner:** A person who owns fruit trees in order to pick the fruit and sell it.

**Soil Scientist:** A person who studies soil and gives that information to other people to use.

**Urban Forester:** A person who plants and takes care of trees in cities, towns, and neighborhoods.

## MATERIALS LIST

### FOR EACH STUDENT

- Copy of Student Page  **1**, *Careers Word Search*
- Copy of Student Page  **2**, *Careers Description Tree*
- Paper
- Markers/crayons/colored pencils

### FOR EACH STUDENT OR THE WHOLE CLASS



- Copy of six *Career Profiles* from the unit.
  - Jim, Tree Nursery Manager - page 24
  - David, Soil Scientist - page 38
  - Alan, Ecologist - page 52
  - Linda, Orchard Owner - page 61
  - Kim, Urban Forester - page 71
  - Terrie, Associate Director, Land Trust - page 81

## INTRODUCTION



Remind students that in Wisconsin there are many people who have jobs related to forests and the forest products industry. There are also many people who do not work directly with forests but are connected to them in some way. For example, salespeople sell forest products, truck drivers haul logs and lumber, and park rangers provide information to visitors. Ask students if any of their family members have jobs connected to forests in some way. In this lesson, they will read about individuals who have a variety of jobs related to forests in Wisconsin.

### ACTIVITY 1

1. Read the six career descriptions from this unit to the class. One career profile is found at the end of each lesson. As an option, you can post the descriptions around the room or give them as handouts.

2. Hand out copies of Student Page  **1**, *Careers Word Search*.
3. Ask students to find the words listed at the bottom of the page. These words are from the career descriptions they read. The answers are listed on Teacher Key  **1**, *Careers Description Tree and Careers Word Search Key*.

### ACTIVITY 2

1. Hand out Student Page  **2**, *Careers Description Tree* to each student.
2. List all of the career titles on the board for students to look at. Tell students that they should write the name of the career that goes with the description in the spaces on the tree.
3. Correct the work in class using Teacher Key  **1**, *Careers Description Tree and Careers Word Search Key*.



## RECOMMENDED RESOURCES

### ●●● WEBSITES ●●●

#### **EEK! (Environmental Education for Kids)**

**[www.dnr.state.wi.us/org/caer/ce/eeek/](http://www.dnr.state.wi.us/org/caer/ce/eeek/)**

The Wisconsin Department of Natural Resources EEK! site has a Get a Job! section that highlights careers in a variety of natural resource-related fields.

#### **The Wisconsin Paper Council**

**[www.wipapercouncil.org/fun&learning.htm](http://www.wipapercouncil.org/fun&learning.htm)**

Visit the Careers in Paper link on this kids' website for jobs related to the paper industry.

#### **Wisconsin Department of Natural Resources**

**[www.dnr.state.wi.us/org/land/forestry/uf/index.htm](http://www.dnr.state.wi.us/org/land/forestry/uf/index.htm)**

The Wisconsin Department of Natural Resources has information about their urban forestry program at this site. Included is information about how to contact urban forestry staff in your area.

#### **Wisconsin Department of Natural Resources**

**[www.dnr.state.wi.us/org/land/Forestry/Nursery/index.htm](http://www.dnr.state.wi.us/org/land/Forestry/Nursery/index.htm)**

The Wisconsin Department of Natural Resources State Nursery Program has information about state tree nurseries.

#### **Wisconsin Department of Natural Resources**

**[www.dnr.state.wi.us/whereulive/](http://www.dnr.state.wi.us/whereulive/)**

Your local Wisconsin Department of Natural Resources office can put you in touch with many people who may be willing to speak to your class. Look in the phone book under Wisconsin, State of, Natural Resources, Department of. Or look at the WDNR website to locate who to contact in your area. If you don't see a specific contact that you need, contact the service center in your area.

# CAREERS WORD SEARCH

S	D	V	Y	J	L	D	S	L	X	Z	G	G	N	N
L	E	J	S	C	I	E	N	T	I	S	T	P	U	L
F	G	L	L	B	E	G	F	F	M	K	Y	R	A	A
R	F	P	P	R	H	N	O	T	R	U	S	T	D	N
V	T	A	T	P	B	A	R	T	Q	E	W	E	W	D
V	Y	W	W	N	A	V	E	T	R	P	B	H	U	C
C	N	B	D	J	A	Z	S	Y	L	N	M	U	P	D
Z	O	V	G	I	H	I	T	D	R	A	H	C	R	O
S	H	M	Q	Y	G	Q	E	J	T	B	X	U	X	D
X	O	R	M	O	Z	B	R	B	Q	R	B	I	D	G
W	A	I	L	U	T	L	I	V	B	U	Q	R	G	M
I	Z	O	L	L	N	W	V	X	V	T	H	L	N	Y
A	C	K	N	M	W	I	Q	N	N	D	Y	O	U	M
E	V	K	B	H	T	W	T	D	B	T	I	U	H	W
U	C	K	J	X	E	D	T	Y	L	T	W	G	X	N

APPLES

LAND

SOIL

COMMUNITY

NURSERY

TREES

ECOLOGIST

ORCHARD

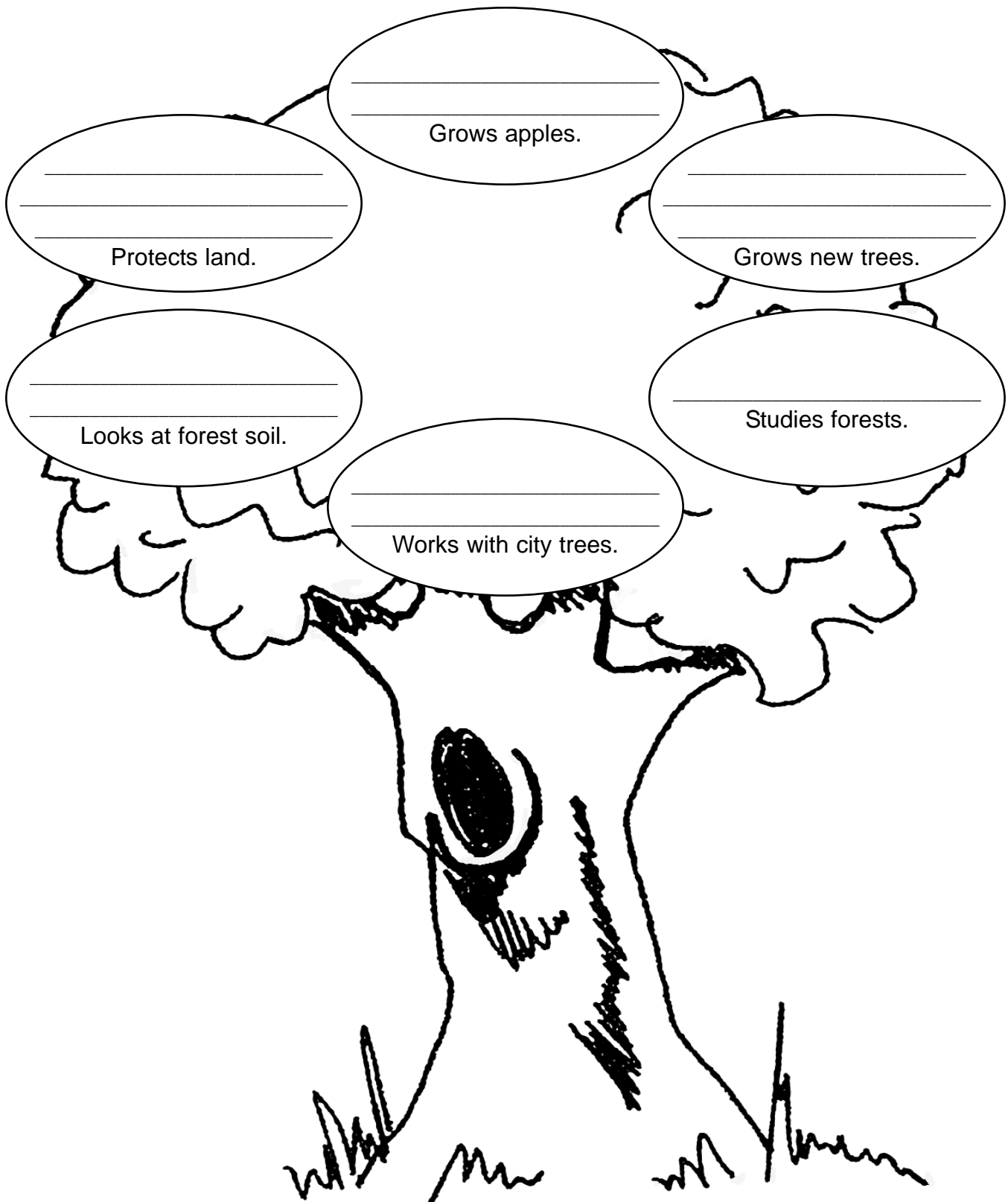
TRUST

FORESTER

SCIENTIST

URBAN

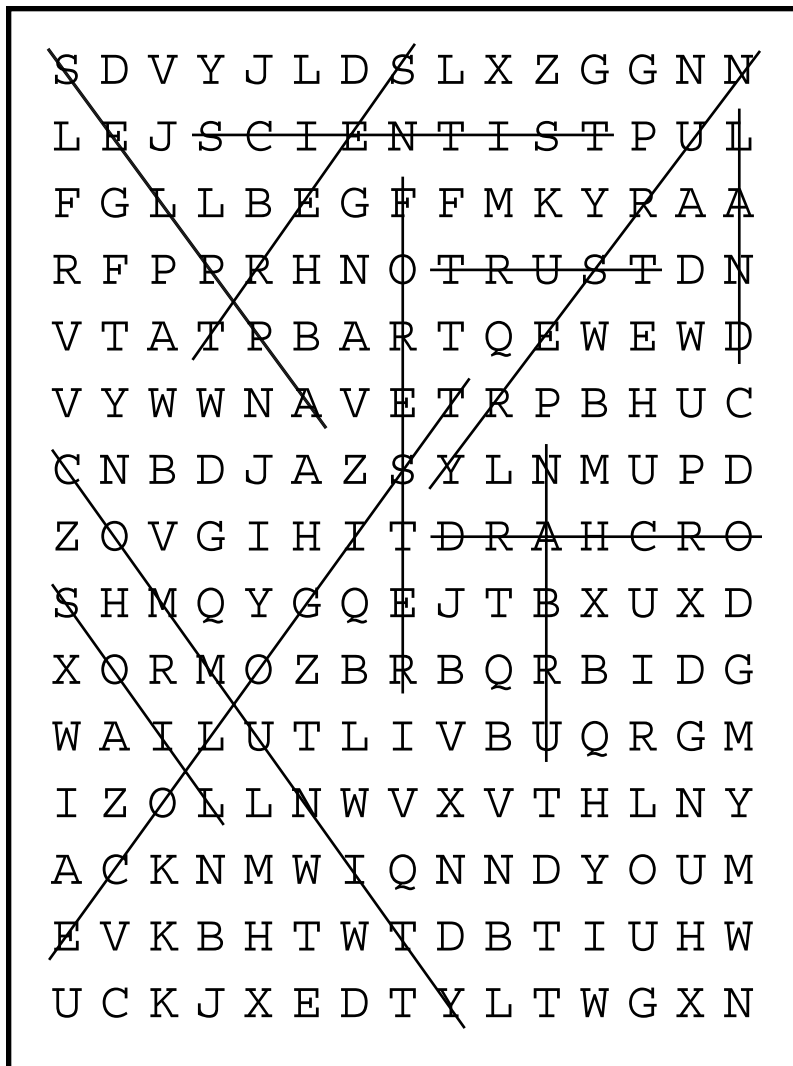
# CAREERS DESCRIPTION TREE



# CAREERS DESCRIPTION TREE AND CAREERS WORD SEARCH KEY

## CAREERS WORD SEARCH

Student Page  1



## CAREERS DESCRIPTION TREE

Student Page  2

### Clockwise From the Top:

- Grows apples.  
*Answer: Orchard Owner*
- Grows new trees.  
*Answer: Tree Nursery Manager*
- Studies forests.  
*Answer: Ecologist*
- Works with city trees.  
*Answer: Urban Forester*
- Looks at forest soil.  
*Answer: Soil Scientist*
- Protects land.  
*Answer: Land Trust Director*