



Interdependence Tour

Pre- and Post-visit Activities

Word Search

Find these tree-related vocabulary words in the grid below. Many of these terms will be used during your tour.

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

TREE RINGS
STORAGE
PHOTOSYNTHESIS
GROWTH RATE
GENETICS
SAP
PHLOEM
XYLEM
MINERALS
HABITAT
TRANSPORT
URBAN FOREST
POLLUTION
ABSORPTION
EROSION

Tree Products

Challenge students to name all of the items they use or consume that can be made from Trees. How many Tree products have students used just since waking up this morning? How many can we see in the classroom right now? What about tree products in our lunch bags?

Remind students of items they may not realize: nail polish, band-aids, cough drops and medications, spices, tires, hot chocolate, etc.

Trees Need Light

A tree is alive and requires energy. Humans get required energy from the food that we eat. A tree captures light from the sun and converts that to energy. This means that trees must have sunlight. What would happen to a tree if it didn't get enough sunlight?

To conduct this experiment, you will need: black construction paper; tape; scissors; a tree with large, broad leaves (like an Oak, Maple, Linden, etc.)

Procedure

1. Cut two squares or rectangles of construction paper large enough to cover a leaf.
2. Sandwich the leaf between the two pieces of construction paper. **IMPORTANT: THE LEAF MUST BE ALIVE AND STILL ON THE TREE.**
3. Tape the construction paper so that it stays on the leaf. The leaf must be completely covered so that no light gets to it.
4. Leave the paper in place for a few days; then take it off. What occurred?

Go back and look at the leaf a week after you take the construction paper off. Has the leaf turned green again? Is it dead?

Redo the experiment, this time cutting small circles in the construction paper. How does this change the result?

Tree Vocabulary

Match the definition to the correct term. You may remember learning these terms from your tour.

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|---|-------------------|
| 1. _____ Tubes that carry minerals and water to the leaves | A. Tree rings |
| 2. _____ Tubes that carry sugars from the leaves to the roots | B. Storage |
| 3. _____ The speed the trees grow | C. Photosynthesis |
| 4. _____ All the trees and plants that live in the city | D. Growth rate |
| 5. _____ The removal of soil by wind or water | E. Genetics |
| 6. _____ Taking something in | F. Sap |
| 7. _____ Holding on to something until it is needed | G. Phloem |
| 8. _____ Sending something from one place to another | H. Xylem |
| 9. _____ Tiny nutrients dissolved in soil water | I. Minerals |
| 10. _____ Sugary substance produced by the leaves | J. Habitat |
| 11. _____ This is what you look at to know a tree's age | K. Transport |
| 12. _____ The process that leaves use to make food | L. Urban forest |
| 13. _____ The harmful parts of air and water | M. Pollution |
| 14. _____ The term for the homes of animals | N. Absorption |
| 15. _____ The term for the genes that an organism has | O. Erosion |