

Word Scramble

Can you unscramble the letters to make words related to **P.r.** and Sudden Oak Death?

N O T A K A

F L E A

G O T H P A E N

S U N F U G

R A N E C K

D O O R W E D

K R A B

T O T A K E E



This booklet was produced by the
California Oak Mortality Task Force
<http://www.suddenoakdeath.org>

Artwork provided by Jo Smith

Sudden Oak Death Activity Guide

Sudden Oak Death is a disease that kills trees such as tanoak, coast live oak, and California black oak. It also infects many other plants without killing them. The disease is caused by a microscopic organism named “Phytophthora ramorum” (pronounced “Fi-TOFF-thor-ra ra-MOR-um”). That’s a lot to say, so we call it “**P.r.**” for short. Organisms that cause diseases are called pathogens. **P.r.** acts much like a fungus, eating wood and leaves on trees and other plants, and this can make the trees sick or kill them. When it infects a tanoak or oak tree, the bark on the trunk can start “bleeding” or oozing. This bleeding is called a canker and when a canker gets very big it can wrap all the way around a tree’s trunk. The tree gets so sick that all its leaves suddenly turn brown and the tree dies.



Fun activities for children ages 6-15, their parents, and their teachers

Which plants can **P.r.** live on? Lots and lots....

bay laurel	hazelnut	salmonberry
bead lily	honeysuckle	Shreve oak
bigleaf maple	horse chestnut	strawberry tree
black oak	huckleberry	sweet chestnut
buckeye	lilac	tanoak
camellia	madrone	toyon
canyon live oak	manzanita	viburnum
cascara	mountain laurel	western starflower
coast live oak	poison oak	witch-hazel
coffeeberry	red oak	wood fern
douglas-fir	redwood	wood rose
grand fir	rhododendron	and more...



There are many other plants that can also be infected by **P.r.** but these plants do not usually get very sick. Instead, they only get some spots on their leaves (also called “foliage”). California bay laurel and bigleaf maple are two examples of these “foliar hosts.” Because these plants don’t die when they are infected by **P.r.**, they can be a good spot for it to hang out for a while. Then, when a big rainstorm comes through, **P.r.** can hitch a ride in a raindrop and travel to some place new.



Where is P.r. hiding?

We know that the pathogen is found on the trunks of oak trees, but where else might we be able to find it? Look at the pictures on these pages. Are any of these places that **P.r.** might be hiding?

Circle the pictures that you think might be places where we could find **P.r.** if we looked very closely.



Lots of times, **P.r.** ends up in the mud underneath infected trees, along with puddles and old leaves. All of these areas can be hiding spots for **P.r.** If a stream flows through the forest, or birds collect leaves, or animals or people walk through the forest, **P.r.** could be hiding in the water, on the leaves, or in the mud that's stuck to a hoof or a shoe. To help keep **P.r.** from moving too far away, we've made some rules that we call a quarantine. If we all follow these rules, hopefully Sudden Oak Death won't spread to other forests and kill more trees. Anytime that you are in an area that has Sudden Oak Death, you should be extra careful not to take some hitchhiking **P.r.** home with you. Check shoes, tires, paws and hooves to make sure no leaves and mud leave the forest.

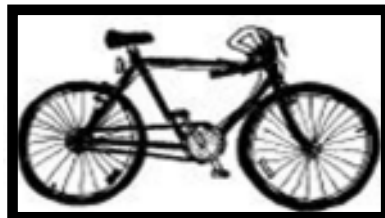
shoes



plants



paws



tires

Word Search

Can you find the Sudden Oak Death word hidden in the letter square below? The words run in all directions - forward, up, down and diagonal.

acorn....bark....bay laurel....bigleaf maple...California black oak....canker....coast live oak....fungus....leaf....mud....pathogen...quarantine....redwood....Sudden Oak Death....tanoak

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