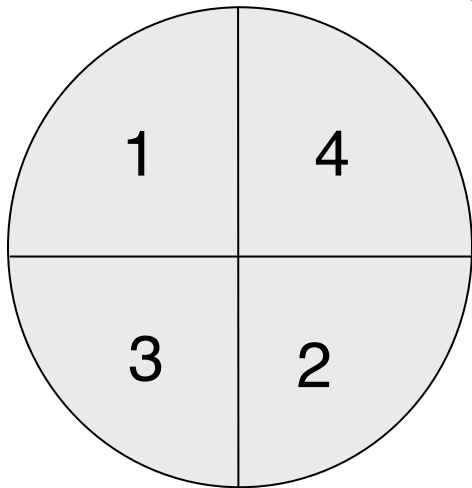


To Build A Fire








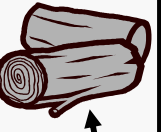

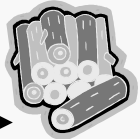


It's going to be a chilly night! Mr. and Mrs. Jones need to build a campfire. Help them find the right firewood before it gets dark.



Spinner

How to play: You need 1 or 2 people to play this game. Find a small, straight twig to use on the spinner and use pebbles as game pieces. First person to find the right firewood wins!

Start here.		You report an EAB to the Park ranger. Move ahead 3 spaces.			
			Woodpeckers help us find EAB. Move ahead 2 spaces.		
	Yummy! Move up 1 space. 			Hurry! The sun is setting. Move ahead 1 space.	
				The tent blows down. Back 1 space. 	
			A dying ash tree falls across your path. Go back 4 spaces. 		
	Oh no! Firewood from a place infested with EAB! Go back to start.			Hurray! You've found firewood for sale near the campground! Good job!	

Firewood the Jones brought from home (100 miles away). Back 4 spaces.

A D-shaped exit hole. Back 2 spaces.



Here's a picture of the toasty fire Mr. and Mrs. Jones are enjoying with the firewood you found!

Instant Essay: Fill-In-The-Blanks

An _____ species is one that invades a new neighborhood and steals food and water from species that have always lived there.

The Emerald Ash Borer (EAB) is a shiny, _____ - colored wood boring _____ that came to North America from the continent of _____. Several adult EAB can fit on a bright copper _____.

Emerald Ash Borers feed only on _____ trees. You can find these trees in several settings including _____, _____, and _____. Ash trees are often located along rivers because they love being near _____. The wood from ash trees is strong and flexible so it is used to make _____ bats and handles for tools.

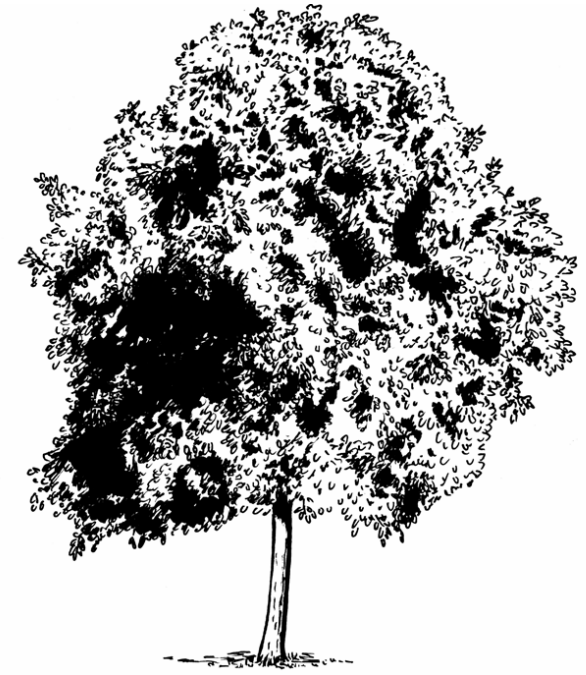
EAB kills _____, beautiful trees, as well as those that are unhealthy. The adult EAB female lays her eggs on the rough outer _____ of the tree. Immature EAB, called _____, feed on tissue of the ash tree that is used to circulate its food and water throughout the tree. Adult EAB begin to emerge from under the tree's bark in the month of _____ through holes that are shaped like the letter _____.

EAB is often moved to new locations in _____ so please tell your parents to buy it only near the place where they are going to burn it.

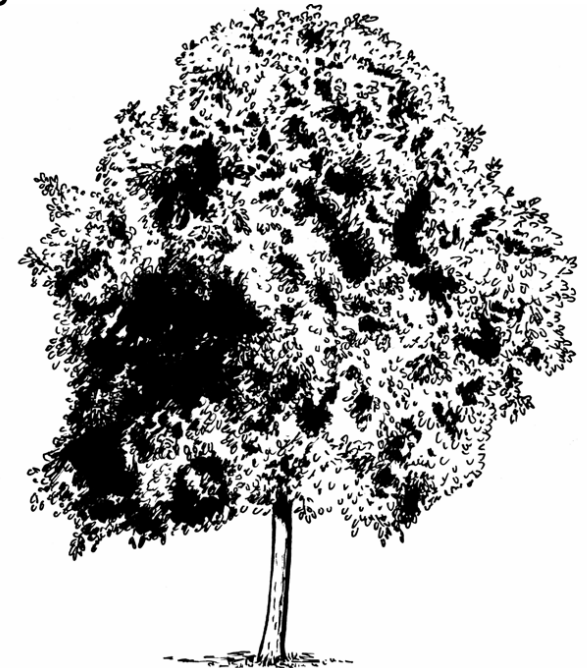
Use the following words to fill in the blanks:

Firewood	Invasive	Forests
Green	Neighborhoods	Baseball
Bark	Ash	Asia
Beetle	Healthy	Penny
Water	Cities	May
Larvae	D	

Seasons

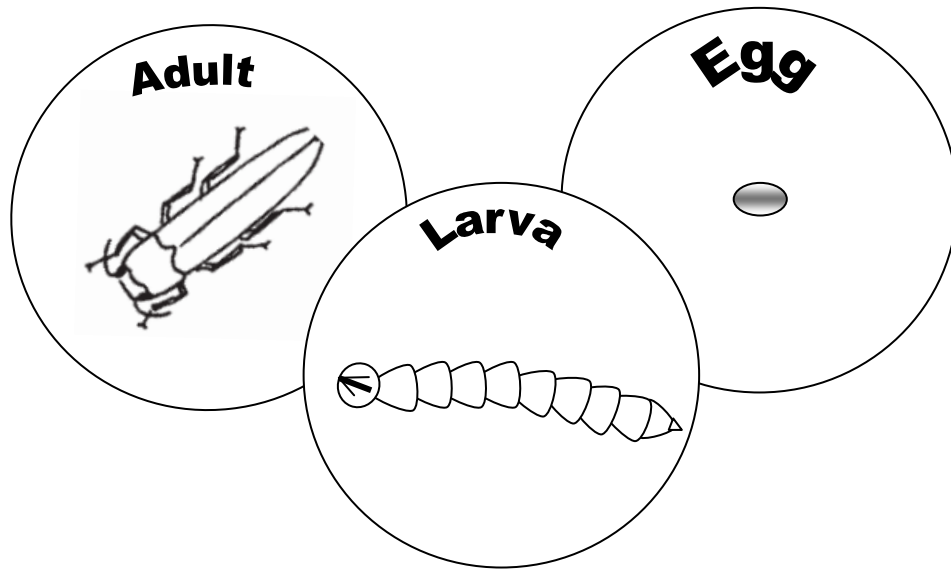


Color an ash tree in summertime and draw yourself standing next to it.



Color the same tree (and you, too!) in autumn. 8

The EAB Life Cycle



Fill in the blanks:

An Emerald Ash Borer starts life as a tiny _____ .

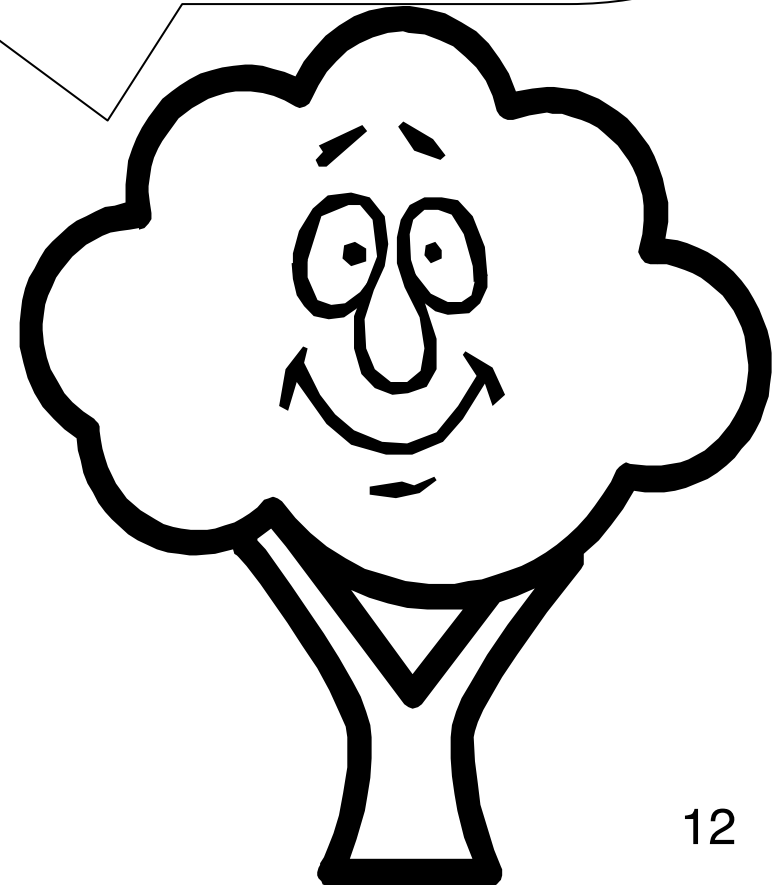
After a few days, the EAB becomes a _____ and feeds under the ash tree's bark all summer long. When the weather turns cool, the EAB snuggles in and takes a long nap that lasts all winter.

In the spring, the EAB wakes up and changes into an _____ while still under the bark. When it is strong enough, it chews its way out through a D-shaped hole and looks for a mate to start everything all over again.

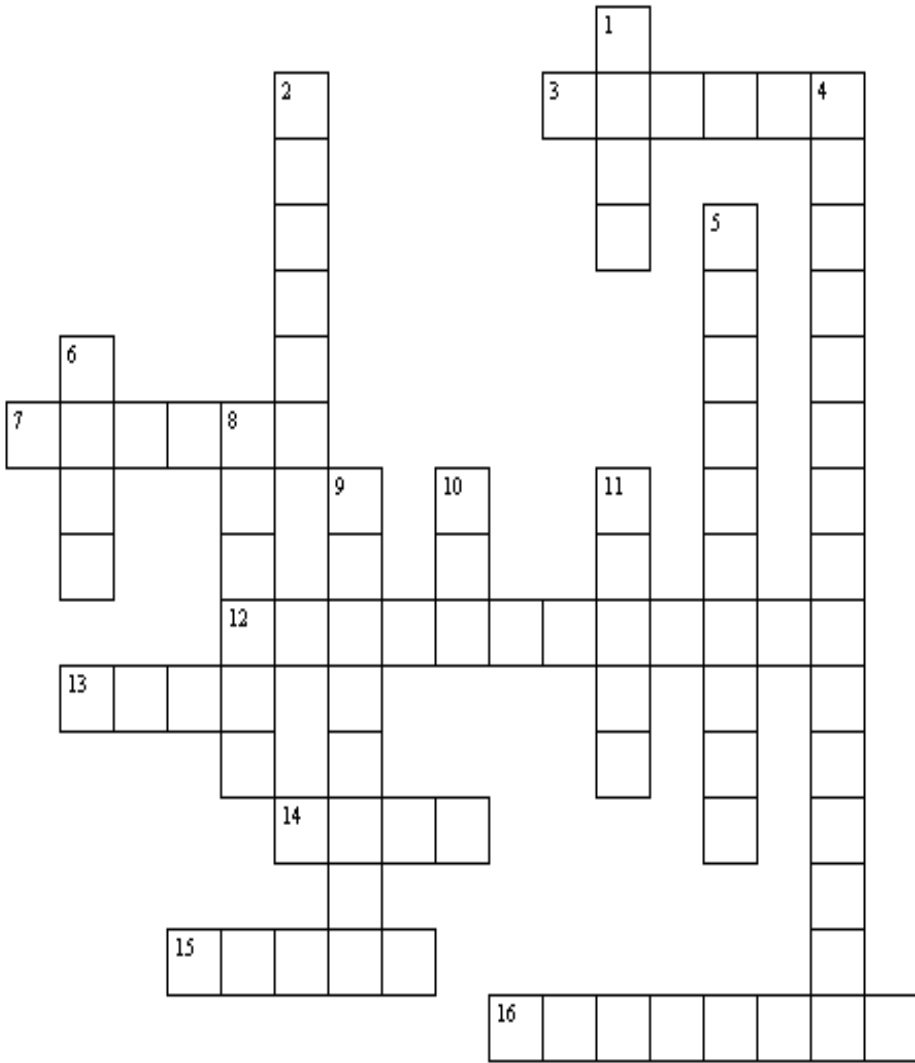
I've Got Something To Ask You...

If you were an ash tree, what would you ask people to do to save you from the Emerald Ash Borer? Write down your message and color the tree!

A large, empty speech bubble shape with a pointed bottom, intended for writing a message to people to save ash trees from the Emerald Ash Borer.

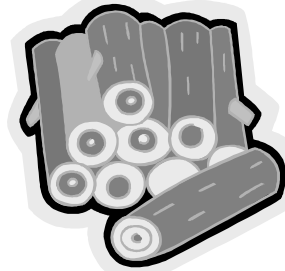


EAB Crossword Fun!

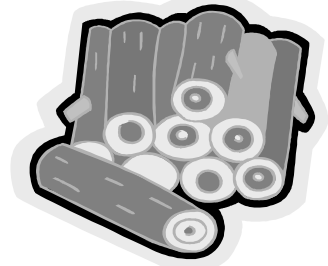


Down: 1.Bark 2. Insect 4. Emerald Ash Borer 5. Campground 6. Home
8. Summer 9. Firewood 10. Ash 11. Kills
Across: 3. Larvae 7. Forest 12. Marshmallows 13. Fine 14. Good 15.
Shade 16. Campfire

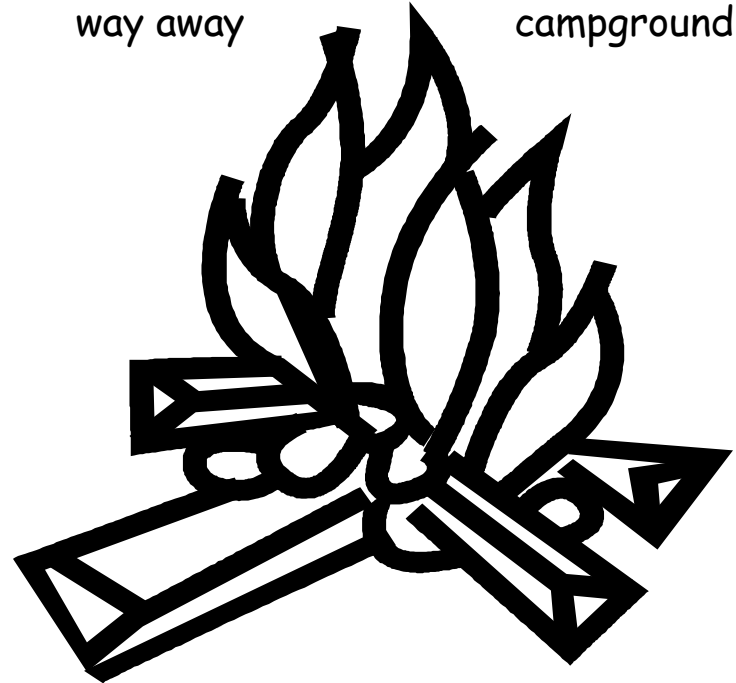
Circle The Firewood Your Family Should Choose:



Firewood you brought
with you from a long
way away

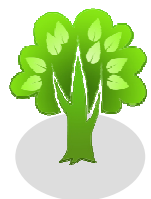


Firewood you bought
near or at the
campground

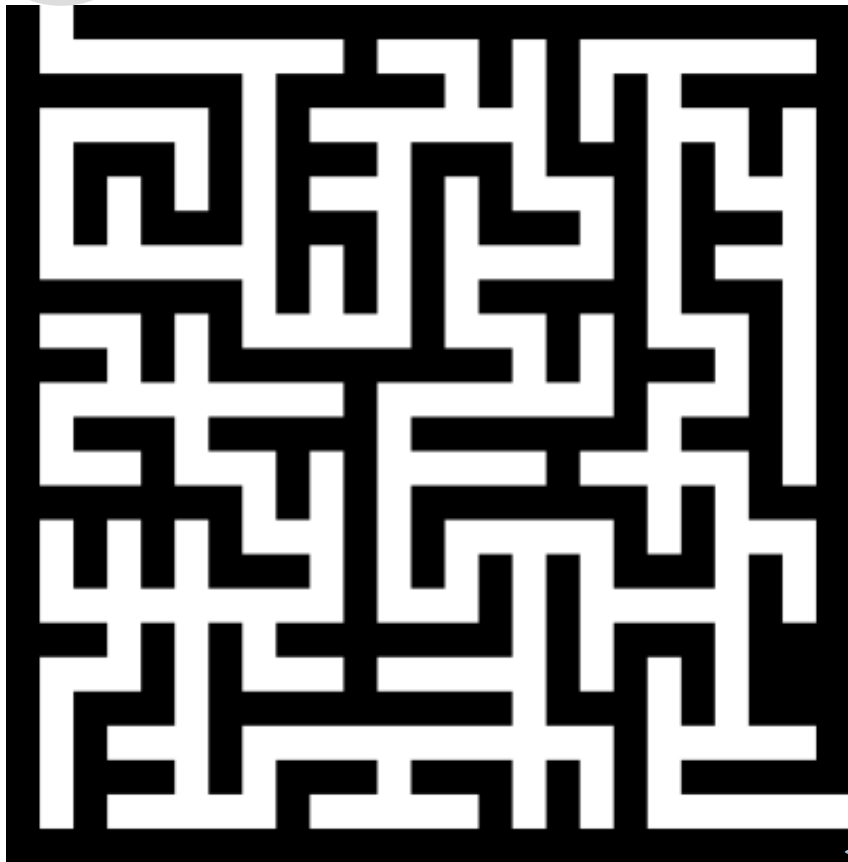


Now color this glowing campfire.
Don't forget the sparks!

Answer: Always buy firewood locally and never move it long distances.



A Trip Through The Maze



Help Jimmy find his way to a resting place under the shady ash tree!

DOWN

1. Young EAB live under this part of the tree.
2. EAB is this type of animal.
4. The *Green Menace* (3 words).
5. A place to pitch a tent or park an RV.
6. Never bring firewood with you from here.
8. The time of year when young EAB feed in the tree.
9. EAB likes to sneak a ride to parks in this.
10. The type of tree that EAB loves to eat.
11. What EAB eventually does to ash trees.

ACROSS

3. The proper term for young EAB.
7. A lovely place full of trees and animals.
12. A gooey treat that you toast over flames when camping.
13. What you must pay if you move firewood illegally.
14. How you will feel if you help save Indiana's trees!
15. Trees provide this on a sunny day.
16. You build one of these when camping to keep you cozy and warm at night.

Test Your Knowledge!

Circle the correct response. Answers are below.

- How many ash trees are there in the forests of North America?
 - 8,000
 - 8,000,000
 - 8,000,000,000
- How many ash trees grow in Indiana's forests?
 - 1,470
 - 147,000
 - 147,000,000
- Branches of ash trees grow:
 - Opposite of each other (like your arms)
 - In a staggered pattern
- Ash wood is used to make:
 - Tool handles
 - Baseball bats
 - Canoe paddles
 - All of the above
- If they are not controlled, Emerald Ash Borers could eventually kill all ash trees in North America. True False
- One of the most important things we can do to protect ash trees is to not move firewood. True False

Scrambled Words

Unscramble these jumbled up words, one letter to each box, to spell the name of things related to Emerald Ash Borer.

ENERG	RETSE
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
UGB	AKRB
<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
WDFEOIOR	
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	

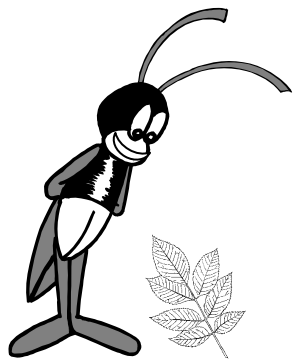
Arrange the circled letters to solve the mystery word.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------	----------------------

EAB Word Search!

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

Find these words hidden in the puzzle.

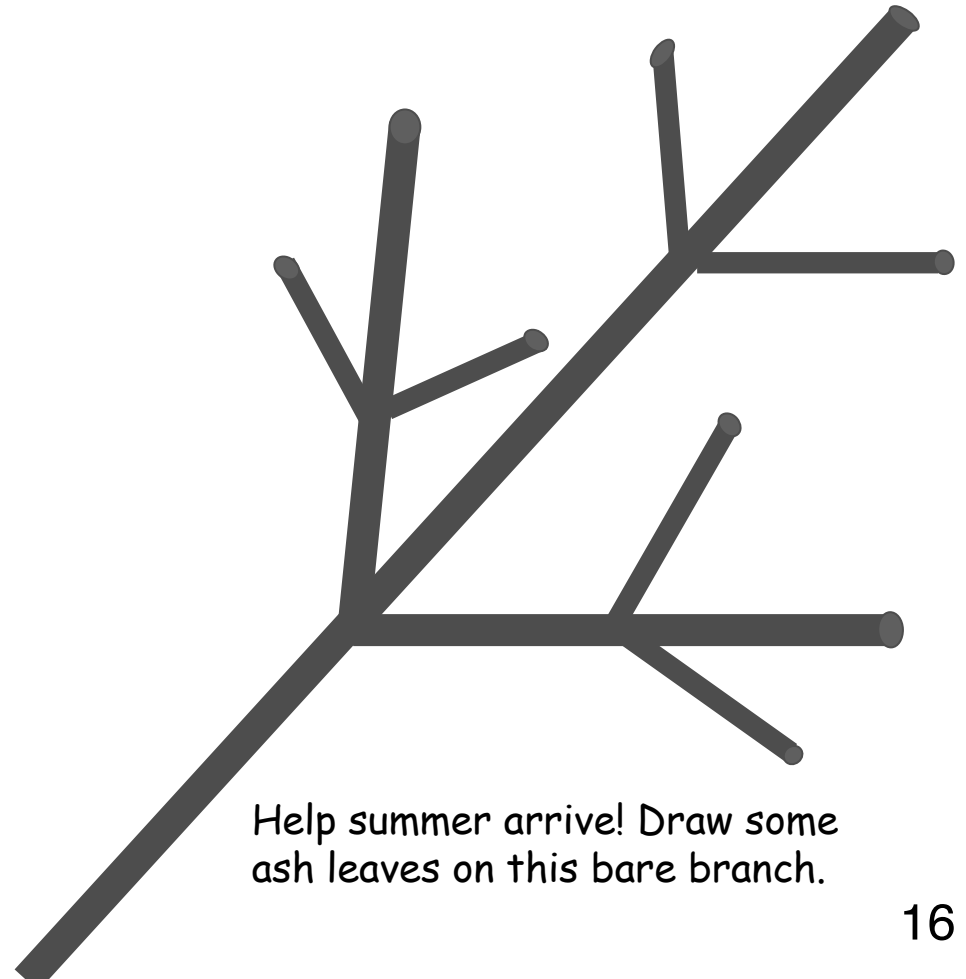


- | | |
|----------|----------|
| BEETLE | BUGS |
| EAB | EAT |
| EMERGE | FEEDING |
| FIREWOOD | FOE |
| GREEN | INVASIVE |
| JUNE | KILL |
| LARVAE | LEAF |
| SAP | SHOOTS |
| TREE | |

Leaves



This is what an ash leaf looks like. Can you make it nice and green?



Help summer arrive! Draw some ash leaves on this bare branch.

Color the bug. Hint: He's really green!



A Healthy Ash Tree

An Ash Tree After EAB

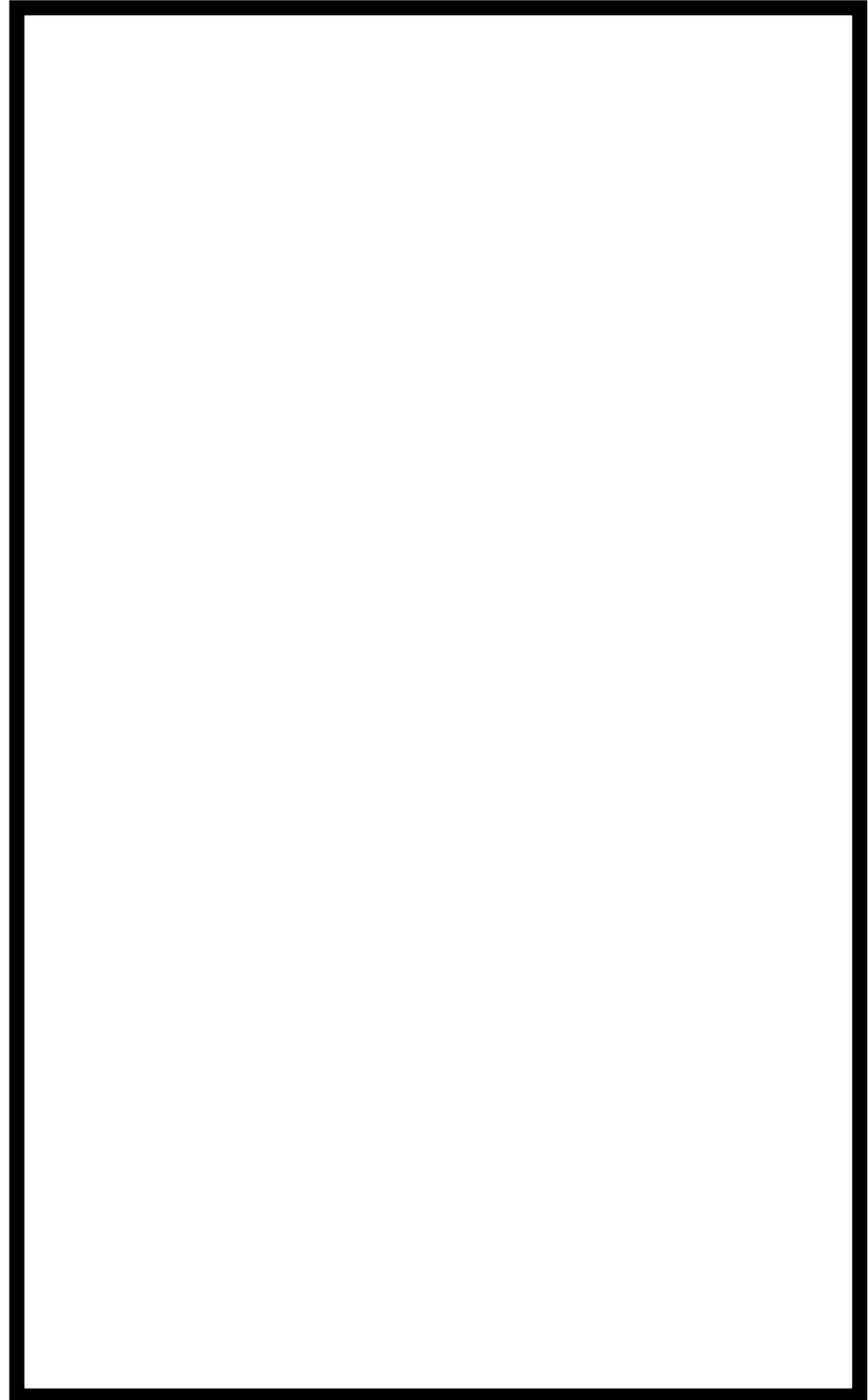
Draw an ash tree before and after EAB

Introduction:

Emerald Ash Borer (EAB) is an invasive insect that is often moved to new places in firewood. It has the potential to destroy all of North America's ash trees and badly hurt our forests.

Adult EAB beetles are bright metallic green in color. Adults are only one half inch long and are present during the summer months. Symptoms of EAB include thinning leaves at the top of the ash tree and D-shaped exit holes on the trunk and limbs.

You can help stop this bad bug by learning about EAB and by asking your parents to buy all firewood at the same place they're going to use it. We hope this little activity book will help you become an EAB Expert!



For more information on
Emerald Ash Borer, visit:

www.emeraldashborer.info

Or call The Indiana DNR
toll free at:

1-866 NO EXOTIC



The Emerald Ash Borer



Fun Activity Book

Have fun while you
learn about this
pesky bug!