### MOSQUITOES AND YOU

(HINT - A MOSQUITO IS NOT YOUR FRIEND!)



# WHAT YOU SHOULD KNOW ABOUT MOSQUITOES AND WHAT THEY KNOW ABOUT YOU!

A MOSQUITO EDUCATION PROGRAM FROM

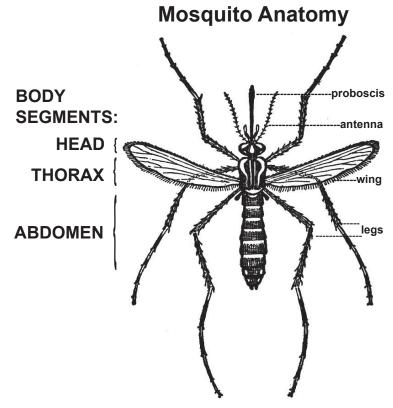
**Leon County Mosquito Control** 

### The Mosquito

Mosquitoes are aquatic insects with a head, thorax, abdomen, two wings and six legs. They are called aguatic because they lay their eggs and grow up in water. The only time mosquitoes do not live in water is during the adult stage of their life cycle. The adult mosquitoes are the ones that cause all the problems because they bite!

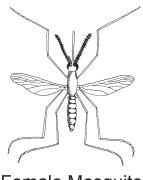
Actually, only female mosquitoes bite. Both male and female adults feed on plant nectar, but the female also needs the protein in blood to develop her eggs. The mosquito uses her antennae to track down carbon dioxide that is expelled in a potential victim's breath. When she finds a victim, the mosquito pokes her proboscis, or mouth, under the skin and injects her own saliva into the victim to keep the blood from clotting. After the blood is flowing, she starts to drink. Mosquito bites itch because we are allergic to the saliva.

Many species of mosquitoes lay their eggs in containers of standing water, such as buckets or wading pools. You can reduce the risk of mosquito bites and disease by eliminating these habitats around your home. If you can reduce the number of larvae, there won't be as many mosquitoes to grow up and bite you!



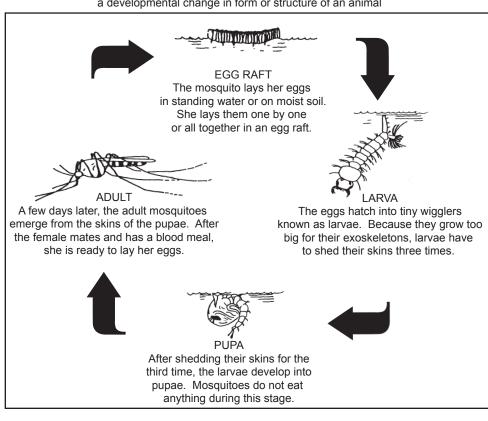
### **Metamorphosis:**

a developmental change in form or structure of an animal



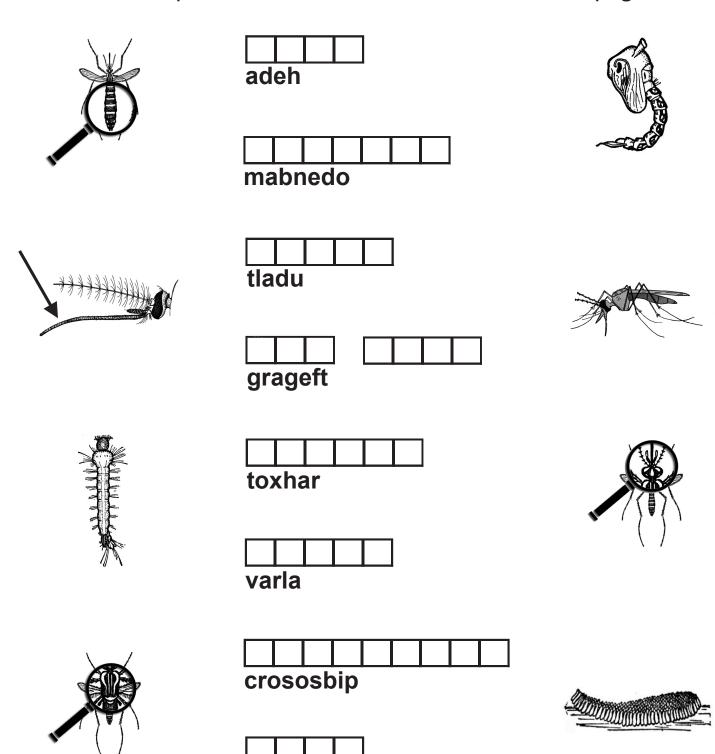
Female Mosquito





# See if you can unscramble these words about mosquitoes!

Hint: There is a picture of each word somewhere on this page.



uapp

### Mosquito-Borne Diseases

Mosquitoes are more than just a nuisance. They carry diseases as well. Some of the most common diseases borne by mosquitoes are the West Nile virus, Dengue, Malaria, Yellow Fever, St. Louis Encephalitis and Eastern Equine Encephalitis. Encephalitis is the swelling of the brain that is caused by some of these diseases. One of the most deadly mosquito-borne disease in the world is malaria, which kills up to three million people each year. Mosquitoes can also transmit heart worm to dogs and cats.

Mosquitoes can spread these diseases when they feed on an infected animal or human, and then bite a healthy animal or human. For example, when a mosquito consumes the blood of a bird infected with the West Nile virus, the virus multiplies within the mosquitoe's stomach and moves throughout its body. Then, when the mosquito bites another animal or human, the disease is transmited by the saliva the mosquito injects under the victim's skin.

Using the list below, find and circle all the names of mosquito-borne diseases hidden in the puzzle. The words can be forward, backward, up, down or diagonal.



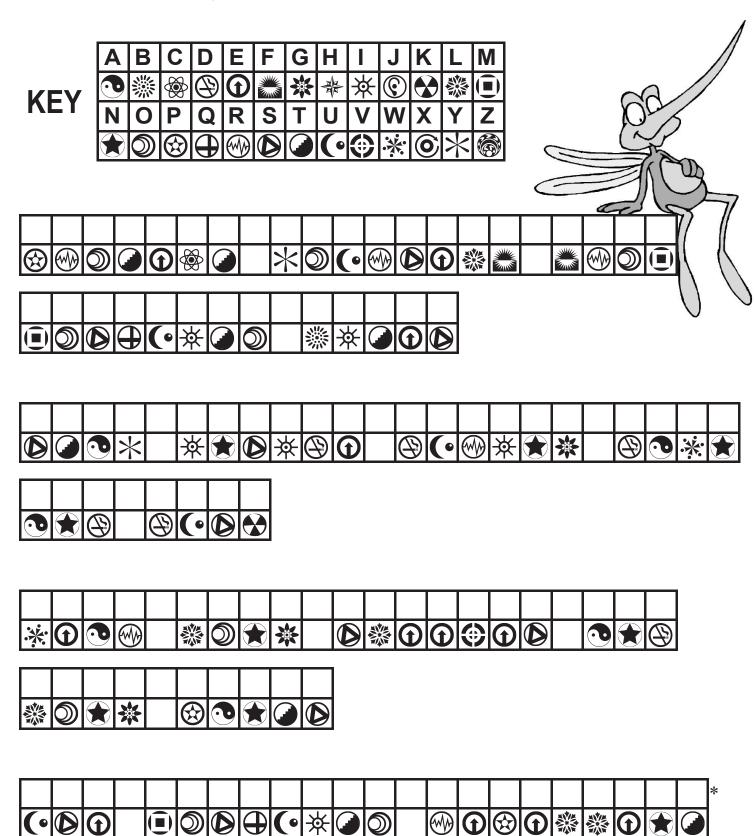
ENCEPHALITIS
WEST NILE
ST LOUIS

DENGUE MALARIA YELLOW FEVER

EASTERN EQUINE HEART WORM

### Solve the Secret Code

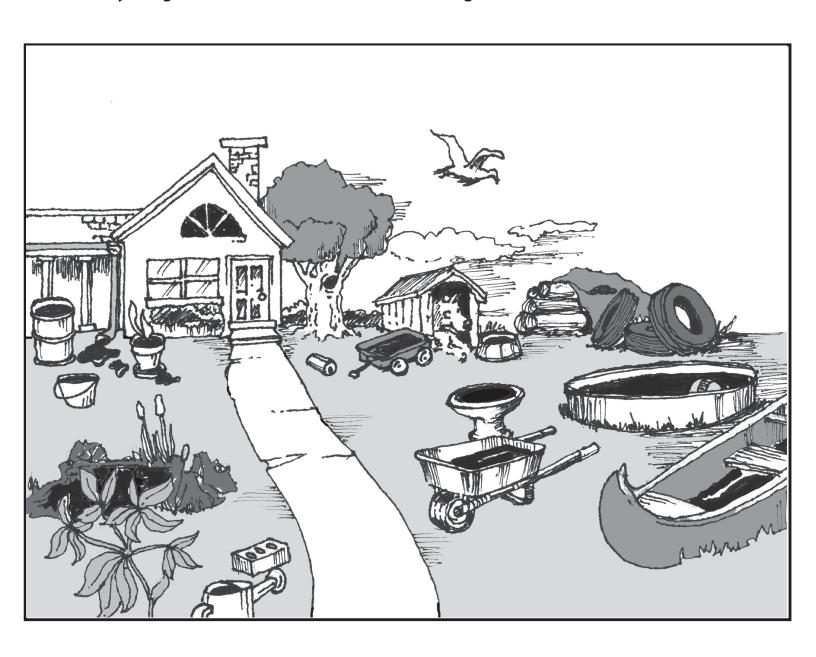
A message about mosquitoes is hidden in the lines below. Use the key to solve the code and reveal the message.



<sup>\*</sup> Ask your doctor what kind of mosquito repellent is right for you.

# Mosquitoes Make Terrible Neighbors - Don't Invite Them Into Your Yard!

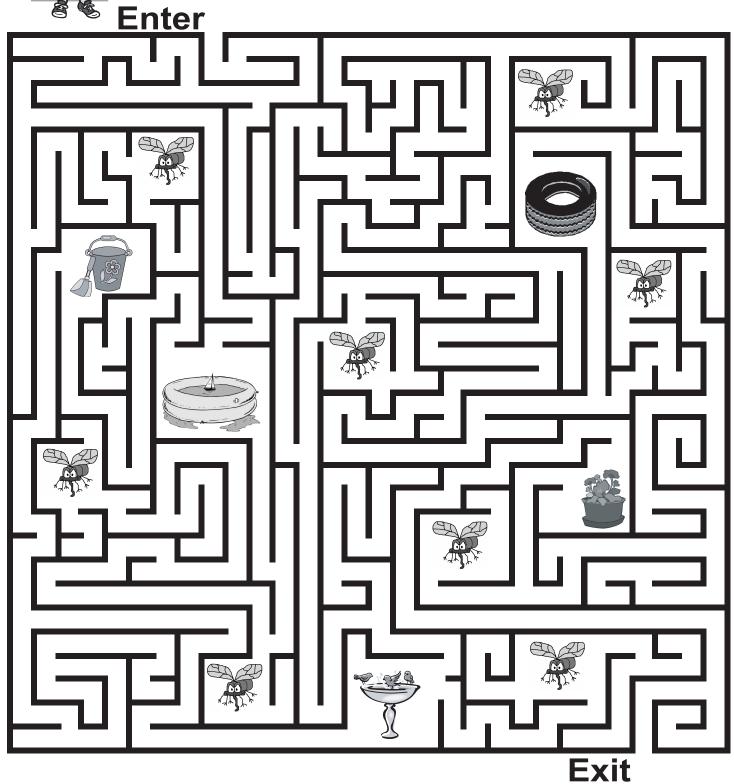
One of the best ways to reduce the number of mosquitoes around your house is to make sure they do not have any containers of standing water in which to lay their eggs and grow. There are all sorts of places in the picture below where mosquito larvae can live. Can you find and circle all 18 locations? Remember, mosquitoes can grow in *anything* that contains or collects standing water.



### Help Anna Through the Maze

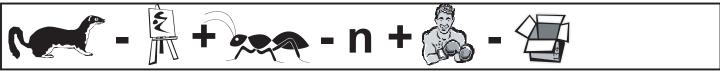


Anna needs to dump out all the containers of standing water where mosquito larvae can grow. Can you help her to get to each container without getting bit by a mosquito?



# Solve the Picture Puzzles to Complete Each Sentence

**Example**: Mosquitoes lay their eggs in water



**WEASEL** 

- EASEL **= W** 

+ ANT = **WANT** 

- N = **WAT** 

+ BOXER= WATBOXER

- BOX = WATER

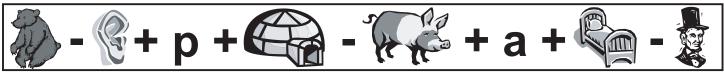
WEASELANTBOXER = WATER

1. Only the \_\_\_\_\_\_mosquito bites.



2. When mosquitoes are in the second stage of their life cycle, they are called \_\_\_\_\_

3. Mosquitoes need\_\_\_\_\_for protein to lay their eggs.

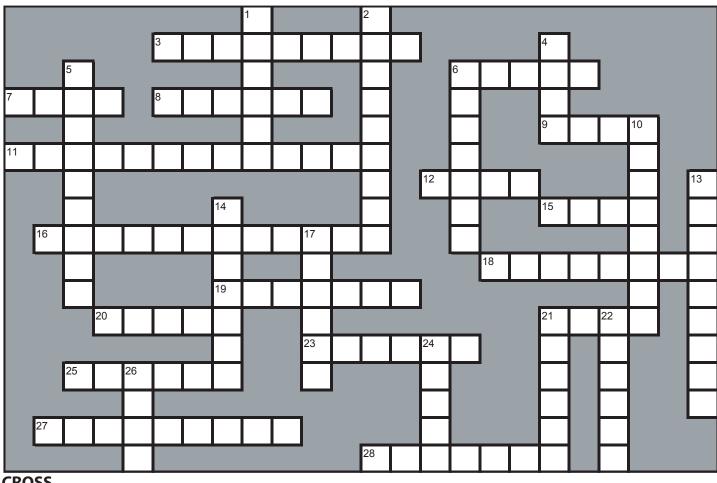


**4.** Mosquitoes are attracted by your\_\_\_\_\_, because they smell the carbon dioxide.

5. Mosquitoes are not only a nuisance, but they also spread \_\_\_\_\_\_.



### **CROSSWORD PUZZLE**



#### **ACROSS**

3. Mosquitoes can give dogs disease.	27. The is a natural predator of the
6. Mosquitoes are called during the	mosquito.
third stage of their development.	28. A mosquitoe bite not only makes you
7. To keep mosquitoes from growing in your	it could also give you a
, you should replace the water weekly.	
8. Only mosquitoes drink blood in	DOWN
order to reproduce.	1. Mosquitoes are attracted to the carbon
9. Mosquitoes start their lives as	dioxide in your
11. The process of the pupa turning into an	2. The part of the mosquito that it pokes i
adult mosquito is called	your skin is called the
12. The first segment of the mosquito's body	4.The mosquito does not bite.
is called the	5. Mosquitoes can grow in any kind of
15. Mosquitoes are most active during dusk	that holds water.
and	6. Mosquitoes need the in your blo
16. Many mosquito borne diseases cause a	to develop their eggs.
swelling of the brain called	10. Mosquitoes lay their eggs in wa
18. Mosquitoes can transmit the virus	14. Each year, causes up to three
by feeding on an infected bird and then	million deaths worldwide.
biting a human.	13. Wearing mosquito can keep th
19. The third segment of a mosquito's body	mosquitoes from landing on you.
is called the	17. The second segment of the mosquito'
20. Mosquito larvae and pupae live in	body is called the
21. To protect yourself from mosquito bites,	21. Mosquitoes are called during th
you should wear sleeves and pants.	second stage of their life cycle.
23. Mosquitoes are called during the	22. Male mosquitoes feed on plant
fourth and final stage of their development .	24. Mosquitoes can grow in old that
25. Mosquitoes inject you with their so	have been left out in the rain.
your blood will not clot while they feed.	26. Mosquitoes have six

28. A mosquitoe bite not only makes you itch,	but
it could also give you a	1
DOWN	2
1. Mosquitoes are attracted to the carbon $ = $	7
dioxide in your	
2. The part of the mosquito that it pokes into	
your skin is called the	
4.The mosquito does not bite.	
5. Mosquitoes can grow in any kind of	,
that holds water.	
6. Mosquitoes need the in your blood	Α
to develop their eggs.	Α
10. Mosquitoes lay their eggs in water.	В
14. Each year, causes up to three	C
million deaths worldwide.	D
13. Wearing mosquito can keep the	D
mosquitoes from landing on you.	D
17. The second segment of the mosquito's	E(
body is called the	E
21. Mosquitoes are called during the	FI
second stage of their life cycle.	l H H
22. Male mosquitoes feed on plant	
24. Mosquitoes can grow in old that	L/ LI
have been left out in the rain.	I ::

### **WORD BANK**

ABDOMEN	MALARIA
ADULTS	MALE
BREATH	METAMORPHOSIS
CONTAINER	NECTAR
DAWN	POOL
DISEASE	PROBOSCIS
DRAGONFLY	PROTEIN
EGGS	PUPAE
ENCEPHALIT	TS REPELLENT
FEMALE	SALIVA
HEAD	STANDING
HEARTWOR	M THORAX
LARVAE	TIRES
LEGS	WATER
LONG	WEST NILE

### **Home Checklist**

Listed below are some places where you might find mosquitoes growing in your yard. look for each item in the list and check it for water.

If you find any water, dump it out so larvae cannot grow there. Put a check in the correct box for each item.

### Be a Mosquito Inspector Find Them Before They Find You!

I found

these:

I found

water in and

emptied these:

I did not

find any of

these:



	triese.	empued these.	triese.
bird baths			
boats			
buckets			
cans, bottles or jars			
flower pots and saucers			
ornamental ponds			
pet water dishes			
rain barrels			
tarps			
tires			
toys			
tree holes			
wading pools			
wheel barrows			
other			
other			







Mosquitoes have been around for millions of years. Scientists call mosquitoes "exquisite survivors," because of their ability to live in many different places and climates. Right here in Leon County where you live, there are more than 40 different kinds of mosquitoes. Some mosquitoes can make people or animals sick. Because mosquitoes have been around for so long, many myths – or beliefs that aren't true – have been told about them. Here are the REAL facts about mosquitoes.

#### **Myths and Facts About Mosquitoes**

Myth: Both female and male mosquitoes bite

**Fact:** Only the female mosquito bites. She uses the protein from your blood to develop her eggs. The male mosquito feeds on nectar from flowers.

Myth: All mosquitoes carry disease.

**Fact:** Only a few species of mosquitoes pose a health threat in Leon County.

**Myth:** The mosquito dies after she bites you.

**Fact:** Mosquitoes are capable of biting more than once. After the female mosquito takes a blood meal and completes the development of her eggs, numbering up; to 250, she may then seek another blood meal to develop more eggs.

Myths: Mosquitoes can transmit HIV/AIDS.

**Facts:** There is no scientific evidence to support the theory that mosquitoes can transmit the HIV virus.

**Myth:** Only the female mosquito makes a buzzing sound.

**Fact:** The buzzing sound you hear is from the beating of the wings of either the male or female. Most people don't hear the male mosquito because it doesn't bite.

Myth: Bats and Purple Martin birds are very effective at controlling mosquitoes.

**Fact:** Bats and Purple Martins are indiscriminate feeders and will eat any sort of insect that flies by. Since they don't concentrate on mosquitoes, they rarely have any substantial effect on the mosquito populations.

Myth: Bug zappers are good for controlling mosquitoes.

**Fact:** Bug zappers kill many kinds of insects, including beneficial ones. Bug zappers do more harm than good.

# YOU CAN FIND MOSQUITOES BEFORE THEY FIND YOU!

FIND ALL SOURCES OF STANDING WATER, YOU MIGHT BE SURPRISED WHERE THEY WANT TO LIVE!

### CHECK:

PET DISHES

PLANTS AND PLANT SAUCERS

BIRDBATHS

REFLECTING PONDS

OLD TIRES

LAWN CHAIRS

PAILS

PUDDLES THAT NEVER DRY UP

MOSQUITOES ARE TERRIBLE NEIGHBORS. LET THEM KNOW, "WE DON'T WANT YOU IN OUR NEIGHBORHOOD!"



Leon County Mosquito Control 2280 Miccosukee Road Tallahassee, Florida 32308 850-606-1400

www.leoncountyfl.gov