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## **BAT HONOR (SKILL LEVEL I)**

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- **TO BAT OR NOT  
TO BAT...THAT IS  
THE QUESTION!**







# MAMMALS

- Fur
- Bear live young (except platypus)
- The babies nurse from their mother
- They are Warm-blooded
- Four legs often with toes and/or "hands" and "feet"



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# BATS

- They have fur or hair
- A baby bat is born alive
- The babies nurse from their mother
- They are Warm-blooded
- Bats have arms, hands and feet





# BIRDS

- Birds have feathers, not fur or hair
- They are hatched from eggs
- The babies are fed from mom's mouth
- They have wings, but not hands and fingers



# **BAT FACT CHAT #1**

What is the main characteristic that separates bats from all other mammals?"



**YAAAAAY! YOU  
NAILED IT!**



YES! They  
Are Mammals  
That Fly!



# BAT TYPES

## Micro Bats



## Mega Bats



<https://www.youtube.com/watch?v=b3w9ZbRQlek&feature=youtu.be>

**“Fun Facts About Bats”**



## “Bat”—Fact---Chat #2

**LIST ONE FACT YOU LEARNED FROM THE VIDEO ?**

That's right. Bats are the only mammal that can truly fly (other species such as the flying squirrels actually glide instead of fly).

What is the name of the order that bats belong to and what does it mean?

Bats are in the order Chiroptera, which literally means "hand-wing" in Latin. This name makes sense because a bat's wings stretch over the forearm and fingers, and attach down at the ankle bones. The name is from the Greek, Cheir=hand; Pteron=wing. They got this name when scientists noticed that they fly with a modified hand.



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# Chiroptera

“handwing”

Watch this 1  
minute video.

- <https://www.bing.com/videos/search?q=Chiroptera&docid=607987714630749102&mid=FEA48A3E9675DF64D7E2FEA48A3E9675DF64D7E2&view=detail&FORM=VIRE>

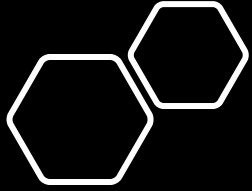




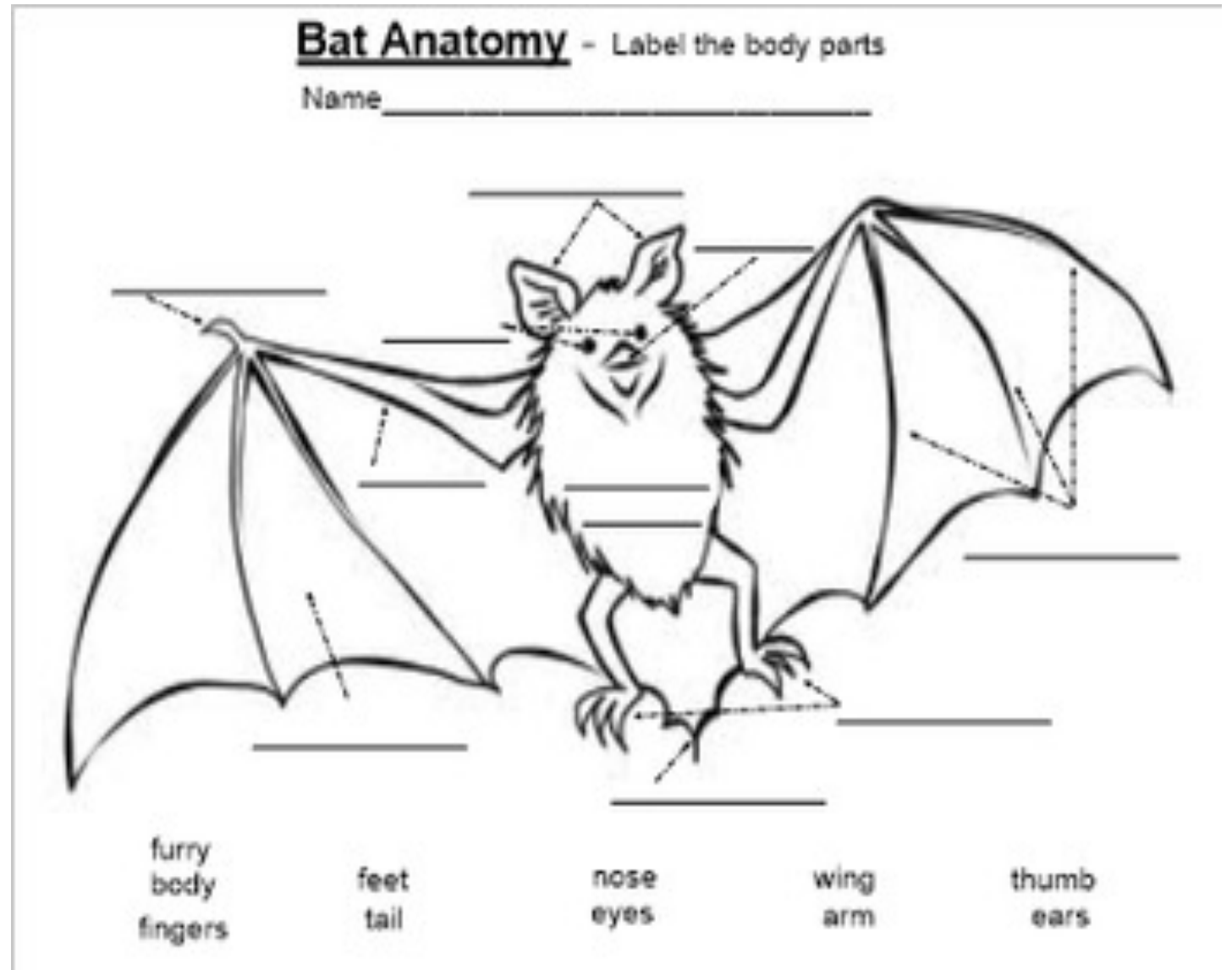
# BRAIN BREAK TIME

<https://www.bing.com/videos/search?PC=IC03&PTAG=ICO-814baf0eaae4d855&q=brain+break+videos+exercises&ru=%2fsearch%3fFORM%3dINCOH2%26PC%3dIC03%26PTAG%3dICO-814baf0eaae4d855%26q%3dbrain%2520break%2520videos%2520exercises&view=detail&mmscn=vwrc&mid=8EE388D4257FF1F4ADC78EE388D4257FF1F4ADC7&FORM=WRVORC>

As I point to the parts of the bat below, let's see if you can guess the correct answer. Type the name of that part in the chat.



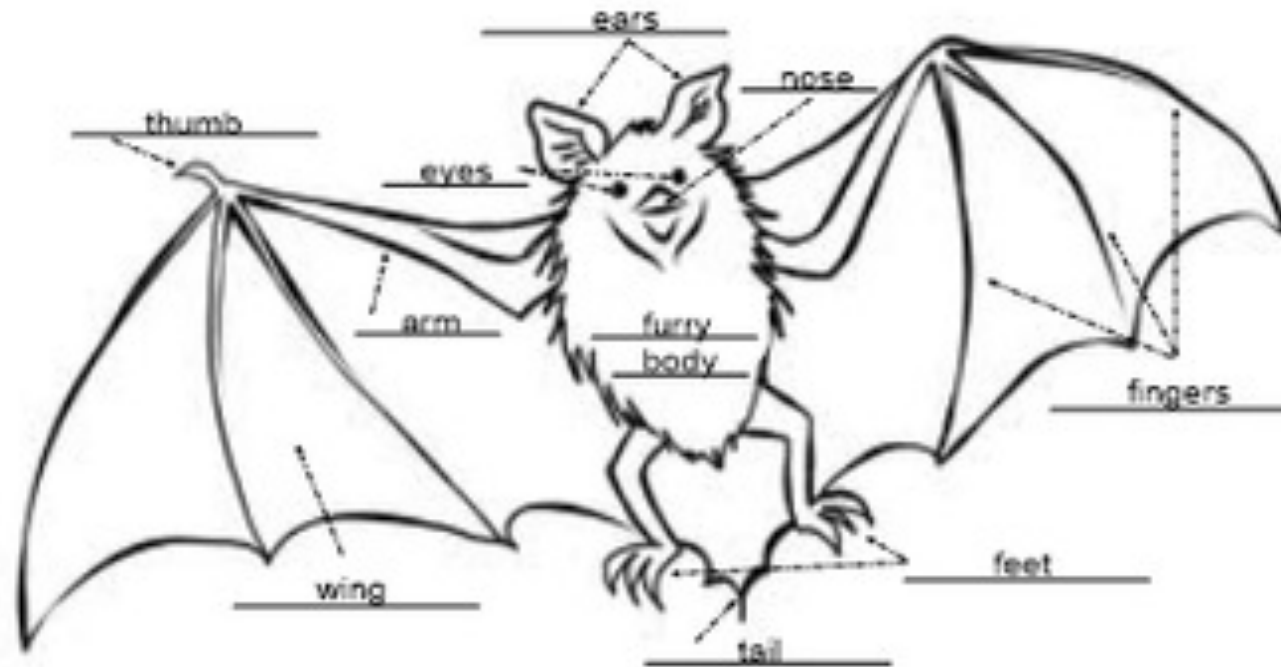
Name the  
parts of a bat.



**KEY**

## **Bat Anatomy** - Label the body parts

Name \_\_\_\_\_



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What are the smallest  
where do they live?

- **Smallest:** The world's smallest bat is the Kitti's Hog-Nosed Bat (a.k.a. The Bumblebee Bat) of Thailand. Weighing less than a penny and with a wingspan of less than 5 inches it is also the world's smallest mammal.



## What is the largest bat? Where do they live?

**Largest:** The biggest flying mammals are the Flying Foxes, particularly those living in Asia and Australia. Several species have a length of 45 cm (17.7 in), a wingspan of 1.7 m (5 ft 7 in), and a weight of 1.6 kg (3.5 lb). The Indian Flying Fox in particular has been known to attain a wingspan of 6 feet.





# How many different types of bats are there worldwide?

There are approximately 1000 species of bats in the world, and bats live on every continent except Antarctica. There are approximately 825 species of Micro-chiroptera worldwide, and about 175 species of Mega-chiroptera.



## “Bat”--Fact—Chat #2

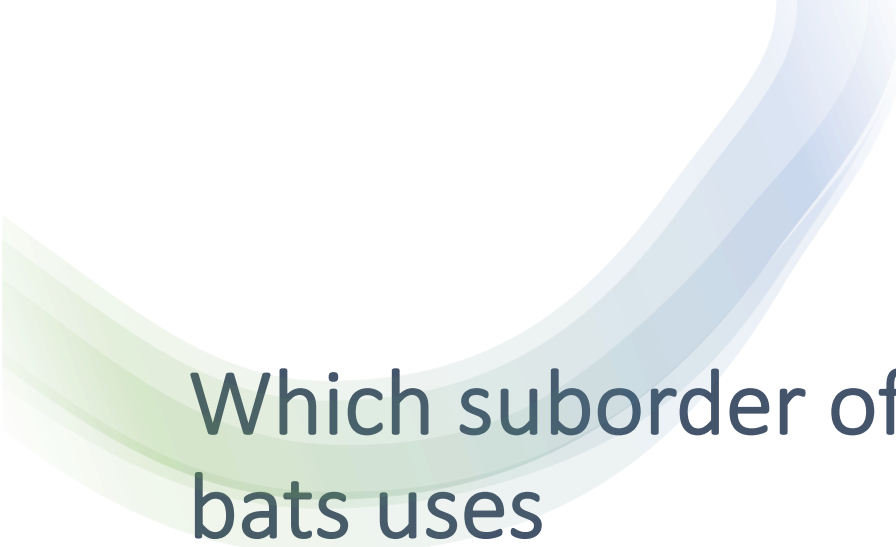
Bat— Fact—Chat something that you have learned so far about large bats and small bats...

Bats are divided into two (2) suborders. What are their names?


- Micro –Chiroptera

- Mega --Chiroptera





Which suborder of bats uses echolocation and which suborder uses eyesight to find their food?

- **a. Megabats:** Use eyesight.
  - **b. Microbats:** Use echolocation. (Bats send out sound waves using their mouth or nose. When the sound hits an object an echo comes back. The bat can identify an object by the sound of the echo. They can even tell the size, shape and texture of a tiny insect from its echo. Most bats use echolocation to navigate in the dark and find food.)
- 

# What is the diet of Mega Bats?


## What is the diet of Micro Bats

- The Megabats are called fruit bats because many of them eat fruit, nectar, and pollen.



- The Microbats are generally insect-eating, although they tend to have a much more varied diet than the megabats. Besides Insects, microbats eat anything from nectar and fruit like megabats, fish, small mammals and birds, and even blood.



A photograph of four baby bats, each nestled in a small, light-colored cloth pouch. The pouches are arranged in a horizontal row. The first pouch on the left has a light blue lining. The second pouch has a yellow and orange patterned lining and a yellow plastic cap is visible. The third pouch has a blue and green patterned lining. The fourth pouch on the right has a green lining with a red star. The baby bats have dark brown fur and large, dark eyes. The background is a plain, light-colored surface.

How many babies does a bat have each year  
and what are the babies called?



# Bat Reproduction



- Each female bat has only **one baby**, or pup, at a time. The pups are unable to fly for several months; the mothers can carry the pups when they fly, but the babies soon grow too large and heavy to be carried. ... Most bat colonies contain a minimum of **perhaps** 40 female bats, which **means 40** babies, as each mother will have one pup per season. That means you could end up with the stench of 40 or more dying animals in your house.

## Find three Bible texts that mention bats.


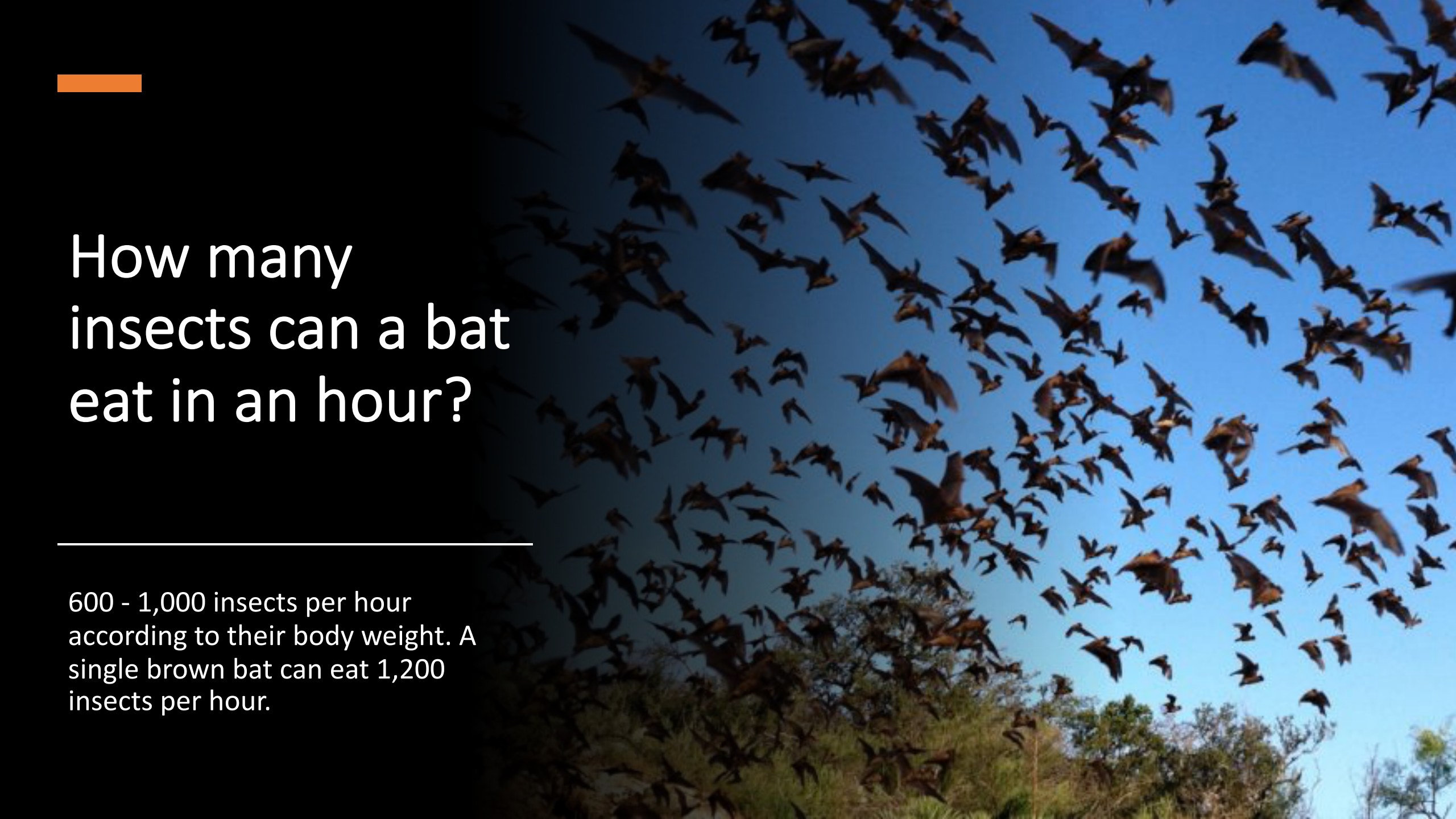
- **Leviticus 11:19:** The stork, any kind of heron, the hoopoe and the bat. (Unclean animals you should not eat)
- **Deuteronomy 14:18:** The stork, any kind of heron, the hoopoe and the bat.
- **Isaiah 2:20:** In that day men will throw away to the rodents and bats their idols of silver and idols of gold, which they made to worship.
- **Which text uses bats in an end-time prophecy?**
- **Isaiah 2:20:** In that day men will throw away to the rodents and bats their idols of silver and idols of gold, which they made to worship.





**Do bats hibernate or  
migrate for the  
winter?**





# How many insects can a bat eat in an hour?

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600 - 1,000 insects per hour  
according to their body weight. A  
single brown bat can eat 1,200  
insects per hour.



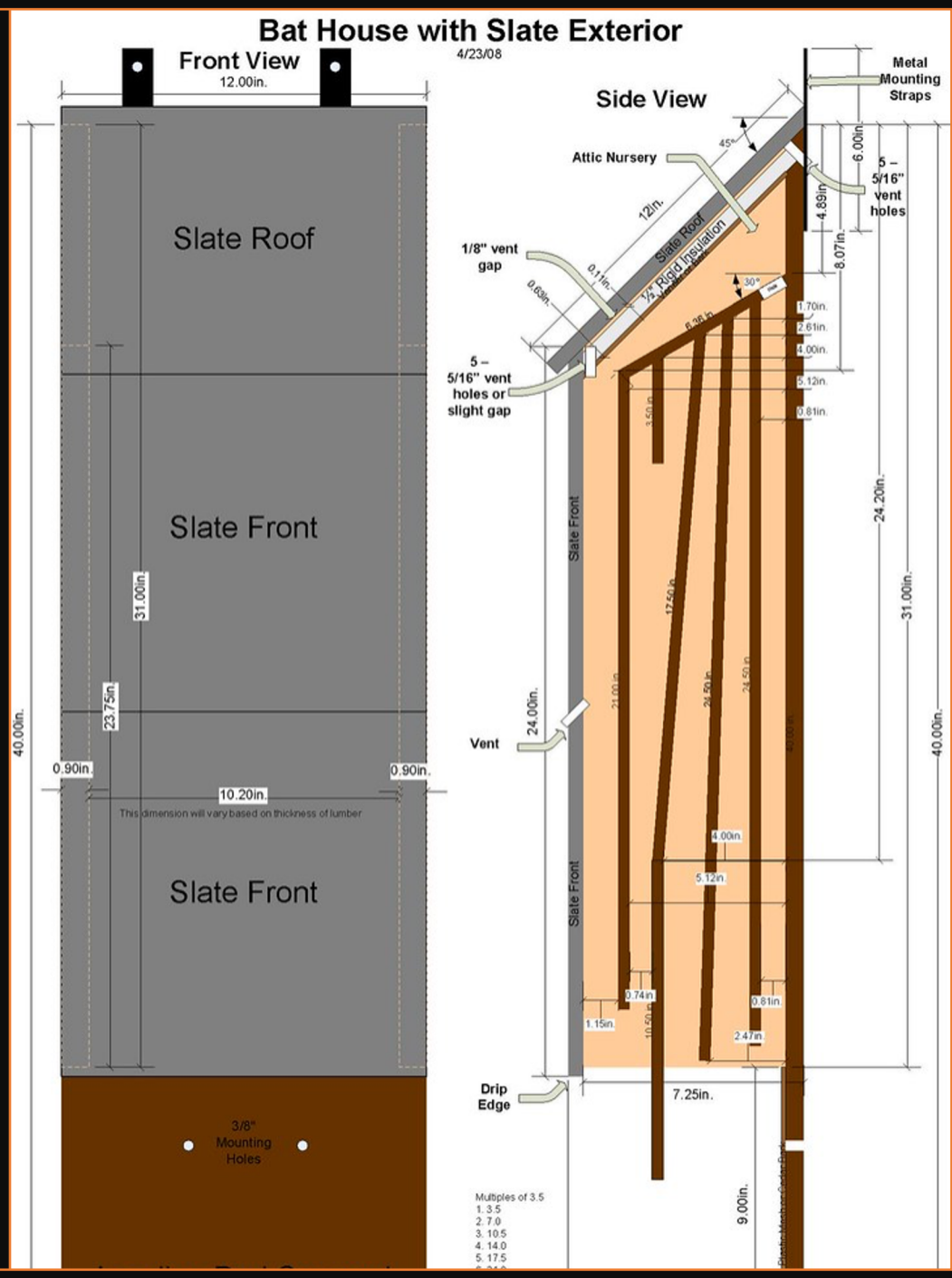
## **What are the two (2) main benefits bats provide for man?**

- **a. Eat insects.** A single brown bat can eat 1,200 insects per hour (3,000 - 7,000 per night). Bats eat such harmful insects such as cockroaches, mosquitoes, and gnats. Large colonies of bats can consume many insects that would otherwise harm farmers' crops.
- **b. Pollinate and spread seeds.** Bats serve as food plant pollinators.
- **c. Provide outlet for medical research.** Their echolocation skills have been studied to help medical professionals help the blind. A chemical agent in the saliva of the common vampire bat, Draculin, is being tested for use in helping stroke victims.



# The “Tre” Show

Build or purchase a bat box,  
know the best place to put it  
and install it at a home,  
church, or your school.  
Record for 3 months what  
kind and how many bats have  
made it their home.







<https://youtu.be/f6dOBB9SXbA>

**Flying Fox Fairy Tale 🦇 | Bat Documentary  
| Natural History Channel  
(for your enjoyment)**

# Advice from a BAT™

Trust in your senses  
Spend time just hanging  
around with friends  
Get a grip



**The  
End**





We would like to thank  
Instructor **Rimona Minisee** for an  
excellent honor presentation! It would be  
impossible for us to continue our  
operation without volunteers like you.

May God bless you!

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