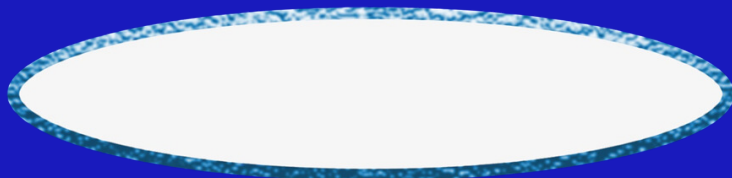


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2.5	3.4 a b	3.5 b	3.8 b c		

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# ENTOMOLGY



Welcome to your  
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**CENTER  
IN THE  
SQUARE<sup>®</sup>**  
and

**Dr. Daniel Frank  
from**



COLLEGE OF AGRICULTURE AND LIFE SCIENCES  
**ENTOMOLOGY**  
VIRGINIA TECH.

What is the name of the Entomologist  
at Virginia Tech?

---

What is an Entomologist?

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---

Dr. Frank talks about arthropods. He explains that they are a group of animals that share characteristics. He lists three important characteristics of all arthropods. Can you list them?

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_





An exoskeleton is when the skeleton is on the **inside** or **outside** of the animal? (circle the best choice)

Do humans have and exoskeleton?

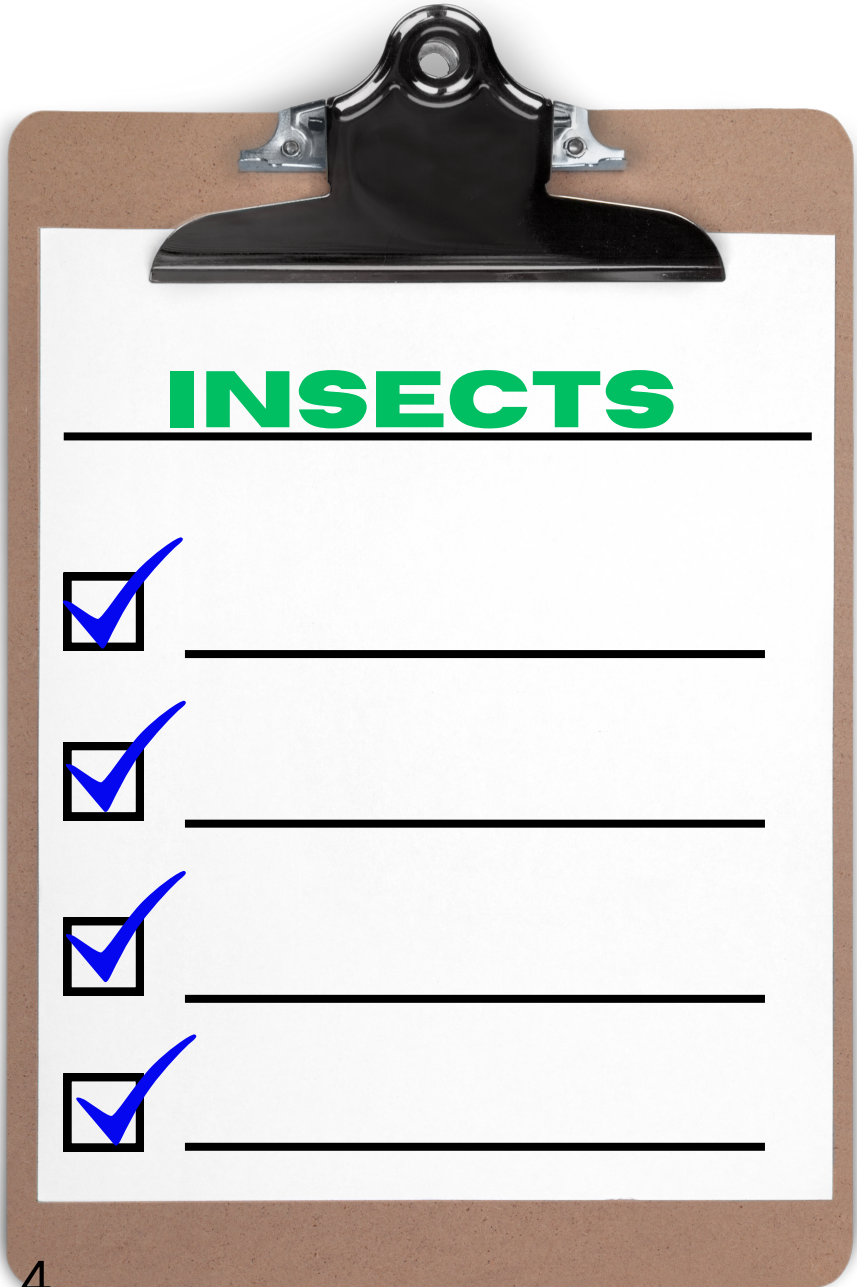


Did you hear it?

Arthropod means \_\_\_\_\_  
\_\_\_\_\_.

Can you draw a picture of an arthropod below?

ALL INSECTS SHARE CHARACTERISTICS. NAME THEM ON THE CLIP BOARD BELOW.



**INSECTS**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# INSECT





Now it is your turn. Write the name in the correct column.



tick



scorpion



ant



ladybug



millipede



beetle



bee



spider 5

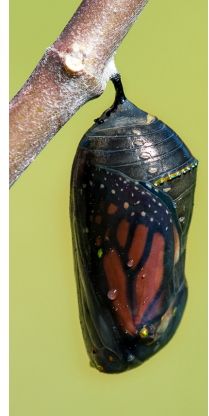
# MOLTING

Molting is the process of  
\_\_\_\_\_ the  
\_\_\_\_\_.



Can you draw a picture of an insect  
shedding their exoskeleton?

# METAMORPHOSIS



Metamorphosis is a change in \_\_\_\_\_ form to \_\_\_\_\_ form.

Insects go through two types of metamorphosis: \_\_\_\_\_ and \_\_\_\_\_

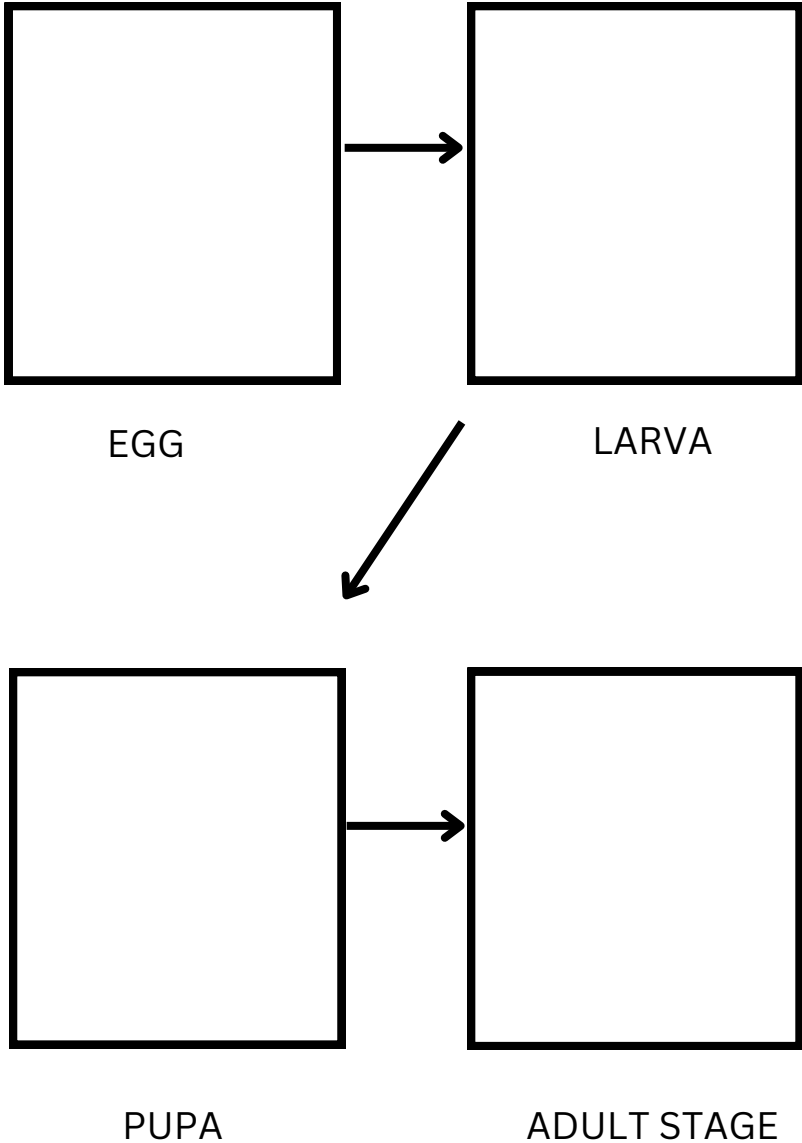
Can you name an insect that goes through incomplete metamorphosis?

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In incomplete metamorphosis does the immature form of the insect look **similar to or completely different** from the adult form? Circle the right answer. (If you are following along with the video, go to page 8 now.)

Can you draw pictures of the 4 stages of an insect going through complete metamorphosis?



# Madagascar Hissing Cockroach

You can identify the males from the females because the males have

\_\_\_\_\_.



The \_\_\_\_\_ is a defense mechanism the cockroach has to scare off \_\_\_\_\_.

A predator is an animal that captures and eats other animals.

Can you list two adaptations Dr. Frank named for the hissing cockroach?

1. \_\_\_\_\_

2. \_\_\_\_\_

The cockroaches we sometimes find in our homes are the same species we see in the video.



TRUE or FALSE

# MEXICAN RED KNEE TARANTULA



Circle on the map where the Mexican Red Knee Tarantula is found.

All spiders have \_\_\_\_\_ legs so they are or are not (circle the best choice) insects.

Spiders have an exoskeleton, segmented bodies, and jointed legs so they are or are not (circle the best choice) arthropods.

What is an adaptation the tarantula has?



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# EASTERN HERCULES BEETLES

Beetles go through

---

metamorphosis.

Draw a picture below of the habitat of the larva  
of the eastern Hercules Beetle.

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

## Scientific Classification of Animal Species

Do you know the 7 classifications?  
Can you find them hidden above?

Happy searching!