





Insects & More

Science SOLs						
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2.5	3.4 a b	3.5 b	3.8 b	С		

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ENTOMOLGY

Welcome to your Virtual Get Schooled Field Trip with



Dr. Daniel Frank from





COLLEGE OF AGRICULTURE AND LIFE SCIENCES ENTOMOLOGY

What is the name of the Entomologist we are met with at Virginia Tech?

Dr. Frank

What is an Entomologist?

An Entomologist is a scientist who focuses

specifically on the study of insects.

Dr. Frank started off talking about arthropods. He explained that they are a group of animals that share like characteristics. He listed three important characteristics of all arthropods. Can you list them?

1. exoskeleton



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 <u>jointed</u>

legs

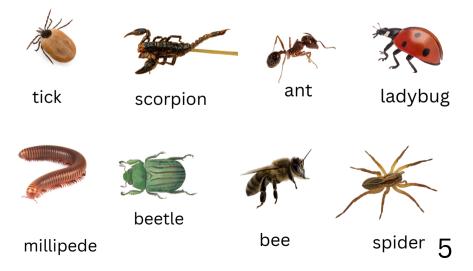
Can you draw a picture of an arthropod below?

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

INSECTS				
	pair of antennae			
	segmented body			
	six legs			
	two pairs of wings			
4				

Thes	INSECT	NOI
ant		tick
ladybug		scorpion
bee		millipede
beetle		spider

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



MOLTING

Molting is the process of <u>shedding</u> the

exoskeleton



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



METAMORPHOSIS

Metamorphosis is a change in <u>immature</u> form to <u>adult</u> form.

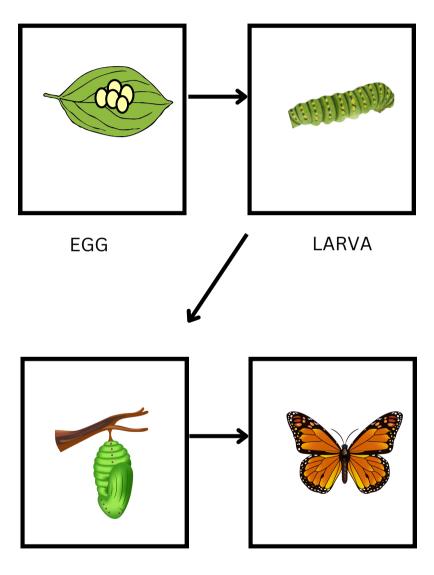


Insects go through two types of metamorphosis: incomplete and <u>complete</u>

Can you can name an insect that goes through incomplete metamorphosis?

A grasshopper (cicadas, cockroach, cricket) is an insect that undergoes incomplete metamorphosis.

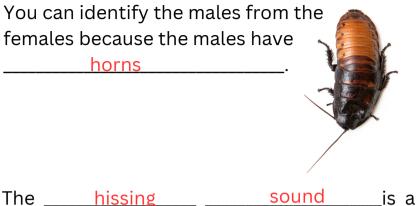
In incomplete metamorphosis, does the immature form of the insect look similar to or completely different from the adult form? Circle the right answer. Can you draw pictures of the 4 stages of an insect going through complete metamorphosis?



PUPA

ADULT STAGE

Madagascar Hissing Cockroach



defense mechanism the cockroach has to scare off <u>predators</u>.

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

Can you list two					
adaptations Dr. Frank ¹		spiney legs			
named for the hissing					
cockroach?	2.	flat bodies			

The cockroaches we sometimes find in our homes are the same species we see in the video. TRUE or FALSE 9

MEXICAN RED KNEE TARANTULA



All spiders have <u>8</u> 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?



An adaptation of the tarantula is hairs on his knees that he can emit into your skin to irritate you and cause your skin to become itchy and red.

EASTERN HERCULES BEETLES

Beetles go through

complete

metamorphosis.

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



Scientific Classification of Animal Species

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