



Arthropod Study Guide KEY

If you are **DONE** with your study guide, you may make corrections or additions as we discuss it during class.

If you are **NOT DONE** with your study guide, you need to have it checked by your teacher for completion.

1. What are the 7 classification levels after Domain? Circle the most specific level.

Domain → Kingdom → Phylum → Class → Order → Family → Genus → **Species**

2. To what kingdom do all arthropods belong? **ANIMAL**

3. What phylum includes the "jointed legged" animals, such as insects, spiders, & crabs? **ARTHROPOD**

4. Identify each class of animals based on the examples provided.

INSECTS - Butterflies, bees, & beetles

CRUSTACEANS - Crabs, lobsters, & pill bugs

ARACHNIDS - Includes spiders, ticks, & scorpions

CHILOPODA - Includes centipedes

DIPLOPODA - Includes millipedes

5. What are some characteristics of arthropods? They have segmented **BODIES** made up of 2 or more sections, **JOINTED** appendages (legs, antennae), and an **EXOSKELETON** (outer shell)

6. What are two differences between millipedes and centipedes?

Centipedes have **1 pair of legs for each body segment** and are **carnivores (with venom)**. Millipedes have **2 pairs of legs for each body segment** and are **herbivores**.

7. What are two differences between insects and arachnids?

Insects have 3 body segments and 3 pairs of legs, while arachnids have 2 body segments and 4 pairs of legs.

8. Why do arthropods molt?

To grow larger

9. Complete each section about insect metamorphosis using the words in the word list to fill in the blanks.

Type	Stages	Examples
INCOMPLETE	Egg → NYPH → ADULT	CRICKET DRAGONFLY
COMPLETE	EGG → LARVA → PUPA → Adult	BUTTERFLY LADY BEETLE

10. Name an insect with an aquatic nymph stage and an aquatic larval stage.

Aquatic Nymph = **DRAGONFLY or DAMSELFLY**

Aquatic Larva = **MOSQUITO or MIDGE**

11. What is biological control? Explain using an example.

Biological control is the use of specific insects to act as predators for a pest and control its population. For example, introducing ladybird beetles into a garden habitat would reduce the aphid population and save the plants.

12. List three ways insects are beneficial to humans.

Provide materials we can use (wax, honey, etc.)

People in some countries use them as food.

Some are beneficial and reduce the need for insecticides.

They pollinate our plants so we have more food.

13. Why are insects important to humans?

Food chains/webs would not be able to survive without insects, which would mean less food for us. They pollinate our plants so we have more food.

14. Go to mrstomm.com → Assignments and then look in the right hand column for links to Quizlet and Quia activities to help you study the unit vocabulary

UNIT TEST TOMORROW!

You will be allowed to use **ONE "mini" index card** (from your teacher) for your test.

You may fill in **BOTH SIDES** with as much information as you think you'll need for the test.

All notes must be handwritten. You cannot tape or glue additional papers to the card.

I = E-N-A (Dfly)
C = E-L-P-A (Mosq)

D = Eukarya
K = Animal
P = Arthropod
C = I, Ar, Cr, Ch, Dp

You will need to turn in the index card after your test along with any stickers you want to use for extra credit.

You will have **10 minutes** to write as much as you can on the card using your **HDSN**.

Add other things from your notes!