

**Unit Learning Targets: What do you know?**

*Amazing Arthropods: Learning Targets*

**I can ...**

- Explain the process of classification as it relates to binomial nomenclature.
- List the levels of classification used to classify living things from the broadest to the most specific.
- Classify arthropods into their correct orders and/or families.
- Describe the characteristics for each of the different classes of arthropods: crustaceans, arachnids, diplopoda, chilopoda, & insects.
- Explain the steps in simple (incomplete) and complete metamorphosis.
- Identify different parts of an arthropod's anatomy and describe the function of each.
- Describe the defense mechanisms that insects use to protect themselves and provide examples.
- Explain how insects are beneficial and harmful to our environment and their role in biological control.

**Unit Vocabulary: Which ones do you know?**

**I can ...**

- Explain the process of classification as it relates to binomial nomenclature.
- List the levels of classification used to classify living things from the broadest to the most specific.
- Classify arthropods into their classification groups (domain, kingdom, phylum, and classes).
- Describe the characteristics for each of the different classes of arthropods: crustaceans, arachnids, diplopoda, chilopoda, & insects.

**2 name system – G + S**

**Eukarya → D**

**Animal → K**

**Arthropod → P**

**C  
O  
F  
F  
S**



Explain the steps in simple (incomplete) and complete metamorphosis.

**Incomplete = E → N → A      Complete = E → L → P → A**

Identify different parts of an arthropod's anatomy and describe the function of each.

Cerci

Maxilla/Mandible

Ocelli

**Look at the  
Grasshopper**

Ovipositor

Spiracles

Crop & Gizzard

**Dissection page!**

Describe the defense mechanisms that insects use to protect themselves and provide examples.

**Mimcry vs Mimesis?**

**Camo, Flash coloration, & Warning colors?**

Explain how insects are beneficial and harmful to our environment and their role in biological control.

Benefits **Pollination, food for others, decomposers,**

Harmful **Pests destroy crops, spread diseases**

Biological Control **Using an insect to control other insects,  
such ladybug beetles eating aphids**