



Phylum Arthropoda (Terrestrial) – Questions

Video Title: Terrestrial Arthropods: The Conquerors Video 13:41 minutes

- 1. Which of the eight phyla was the first to leave the ocean and come onto land?
- 2. What features of the arthropod body plan allowed them to invade land?
- 3. What role might algal mats have played in the land invasion?
- 4. What is special about arthropod appendages?
- 5. What did the first arthropods on land eat?
- 6. See how many different uses of arthropod appendages you can list.

- 7. What arthropod structures are used to extract oxygen from air?
- 8. What two major habitats of Earth were arthropods the first animals to explore?

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9. Define in your own words the vocabulary words at the end of the video.

Exoskeleton

Appendage

Molting

Terrestrial

Detritus

## Supplementary questions:

1. Why is the insect body plan so successful?





- 2. What are the advantages and disadvantages of having an internal skeleton like ours as opposed to an external skeleton that is shed in order to grow?
- 3. What are the advantages and disadvantages of undergoing metamorphosis?
- 4. What animals, besides arthropods, undergo metamorphosis?
- 5. Humans often think of insects as creepy-crawlies that are up to no good. Though some insects do sting or bite, others pollinate our crops. Make a two-column list of some of the good things and some of the bad things about insects with regard to their immediate impact on humans.
- 6. Insects are an enormously diverse group of organisms that often play key roles in their respective ecosystems. Write a few sentences describing three roles that insects play in the natural world to help maintain ecosystem services.
- 7. What is the insect's turbo-charged system for taking in oxygen called?