



Shape of Life

Name _____ Date _____ Period _____

Phylum Arthropoda – Questions

Video Title: *Marine Arthropods: A Successful Design Video* 9:28 minutes

1. What are three advantages to having jointed legs?
2. What do Arthropods use to sense their environments?
3. Which group of marine animals has more members than any other ocean group?
4. How did the Arthropod exoskeleton help them dominate the ocean?
5. Briefly describe how a crab molts
6. About how long does it take the new Arthropod shell to completely harden?
7. How did the Arthropod succeed in the arms race?
8. Name one Arthropod that has thrived in cold marine waters?
9. What clues do horseshoe crabs give us about why arthropods came onto land?
10. How is a Swiss Army knife a good metaphor for the arthropod?



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11. Define these vocabulary words in your own words.

Exoskeleton:

Jointed Appendages:

Marine:

Segmentation:

Krill:

Hydrothermal Vent:

Supplemental Questions

1. How do the animals in this group get food?

2. What animal behaviors did you observe in the episode?

3. What senses do the animals in the episode have? How do they use their senses?



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4. See how many different uses of arthropod appendages you can list.
5. 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?
6. What's an example of arthropods adapting an old body part to conquer a new ecological niche?