

MARINE ARTHROPODS: A SUCCESSFUL DESIGN QUESTIONS

1. What is special about arthropod appendages?	
2. What are the advantages of this type of appendage?	
3. List the different uses of arthropod appendages.	
4. What senses do the animals in the episode have?	



5.	How did the Arthropod exoskeleton help them dominate the ocean?
6.	What are the advantages and disadvantages of having an internal skeleton like ours as opposed to an external skeleton that is shed to grow?
7.	Briefly describe how a crab molts. And about how long does it take the new shell to completely harden?
8.	What arthropod structures are used to extract oxygen from water?
9.	Which other animals use similar structures to extract oxygen?

10. Name one Marine Arthropod that has thrived in cold marine waters.
11. Name one Marine Arthropod that has thrived in extremely hot marine waters.
12. What clues do horseshoe crabs give us about why arthropods came onto land?
13. How did Arthropods succeed In the arms race?
14. How is a Swiss Army knife a good metaphor for the arthropod?

15. See how many different uses of arthropod appendages you can list. Define in your own words these vocabulary words at the end of the video. 1. Appendage 2. Antenna 3. Exoskeleton 4. Molting

5. Diversifying

6. Gill

7. Hydrothermal vent