

CHORDATES: WE'RE ALL FAMILY

QUESTIONS

1. Why is Amphioxus described as a simple organism?
2. What four body parts does Amphioxus have in common with us?
3. What is the function of the notochord in Amphioxus?
4. Name one positive benefit of having vertebrae for Chordates.

5. When Chordates quadrupled the number of *Amphioxus* genes what innovations took hold?

6. What advantages do animals with jaws have?

7. What were the first animals with bony jaws?

8. What is the advantage of a skull?

9. Why does the narrator say, "Evolution is not a straight march forward"?

10. Name two (or three) very different looking Chordates.

11. Describe the probable features of the first vertebrate to exit the ocean and succeed on land?

12. Why does the narrator say that reptiles are like fish out of water?

13. What is the advantage of laying eggs?

14. What do snakes accomplish with their mouths that other vertebrates do with their limbs?

15. What natural disaster wiped out half of the Earth's animals 65 million years ago?

16. Why was this event important for the evolution of vertebrates?

17. What are the advantages and disadvantages of being a warm blooded powerful mammal?

18. Which vertebrate group are humans most closely related to?

19. Name three similarities between humans and great apes.

20. Name three ways in which humans and great apes are dissimilar.

21. What are the five major groups of vertebrate animals?

22. Describe in detail one animal behavior you observed in the episode

Define in your own words these vocabulary words:

1. Nerve Cord

2. Gill Slit

3. Segmented Muscle

4. Notochord

5. Vertebrate

6. Scaffolding

7. Asteroid

8. Metabolism

9. Primate