

High School Science Virtual Learning College Biology Chapter 17 Recap Part 2 May 19, 2020



High School College Biology Lesson: May 19, 2020

Objective/Learning Target:

Students will be able to identify the key characteristics of Echinoderms and Chordates and discuss the key events in Human Evolution.



Let's Get Started:

- 1. Which major arthropod group is mainly aquatic? Which is most numerous?
- 2. Flatworms are the simplest animals to display a body plan that is _____.





- 1. Crustaceans; insects
- 2. Bilaterally symmetric



Lesson Activity:

- 1. Read over pages 22-42 of the Chapter 17 Notes. (Linked Here)
- 2. Watch this Crash Course video on <u>Chordates</u>. Watch this Crash Course video on <u>Human Evolution</u>.



Practice:

- 1. List and describe the two major types of living fish.
- 2. Amphibians, reptiles and mammals are all called what? Why?
- 3. What are the three major groups of mammals?



Practice Answers:

- 1. Cartilaginous fish have flexible skeletons made of cartilage and include sharks and rays. Bony fish have a skeleton reinforced by hard calcium and include ray-finned and lobe-finned fishes.
- 2. They are called tetrapods. Which means that they all have four feet.
- 3. Monotremes, marsupials, and eutherians. Monotremes lay eggs, marsupials have a pouch and eutherians have a placenta.



More Practice:

- 1. The oldest group of tetrapods is the _____.
- 2. Match each of the following animals to its phylum
 - a. Human
 - b. Leech
 - c. sea star
 - d. Lobster
 - e. sea anemone

- Echinodermata
 Arthropoda
- 2. Arthropoda
- 3. Cnidaria
- 4. Chordata
- 5. Annelida
- 3. During our early embryonic development, what four features do we share with invertebrate chordates such as lancelets?



More Practice:

4. Which hominin species was the first to walk upright? Which was the first to spread beyond Africa?

5. What are two defining characteristics of mammals?



More Practice Answers:

1. Amphibians



- 3. 1) doral, hollow nerve cord; 2) notochord; 3) pharyngeal slits; 4) post-anal tail
- 4. Australophithecus afarensis; Homo erectus
- 5. Mammary glands and hair



Review Tools:

- -Kahoot 3
- -Kahoot 4
- -Mr. Anderson <u>Video</u> about animals

-Visit the Natural History Museum's page on <u>Human Evolution</u>.