Walking With Monsters – Before the Dinosaurs

Episode 1 "Water Dwellers"

Cambrian Period, 530 Million Years Ago

1. The evolution of eyes led to an arms race between arthropods and vertebrates. List specific adaptations demonstrated by *Anomalocaris and Haikouichthys*.

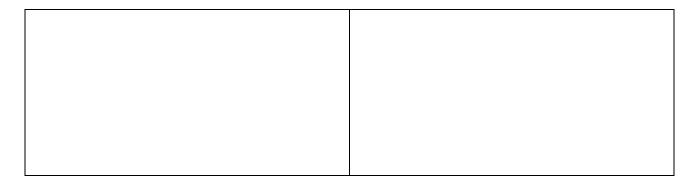


(Arthropod)



Haikouichthys

(Vertebrate)



Silurian Period, 418 Million Years Ago

- 2. What are the advantages of having an endoskeleton (inner backbone) compared to an exoskeleton?
- 3. *Cephalaspis* was a jawless fish that developed many adaptations that *Haikouichthys* did not have. List them.
- 4. Why did some of the early vertebrates begin migrating into freshwater inland?
- 5. What was the atmosphere on Earth like at this point?

6. Why were arthropods like Brontoscorpio so much more well-equipped for living on dry land than other animals?

Devonian Period, 360 Million Years Ago

- 7. Hynerpeton is one of the earliest known amphibians. What is unusual about these animals? How were they well-adapted for the atmosphere during this period?
- 8. The hynerpeton males are shown performing a mating ritual to attract females. Describe the ritual. What traits might this display have been advertising to females?
- 9. What changed about eggs that allowed reptiles a greater range on land?
- 10. What phylum of animal is shown at the end preying on the reptile eggs?