

Mankind Rising: Video Questions

Sorry about the title, I dislike the term "mankind," biologically, women are WAY more important!

1. What does 4000 million years ago mean?
2. When did cells first divide? (copy themselves)
3. What is common among ALL living things?
4. What is the cause of all differences between early cells?
5. What was our early aquatic ancestor? And how long ago was it present?
6. What specialized structure did our ancestor develop that gave it an advantage?
7. What structures developed to give us an advantage against predation and food acquisition?
8. What organ developed to help us colonize land?
9. What type of fertilization helped overcome the problem of eggs needing a tough shell?
10. What happened due to massive volcanic activity 250 m.y.a.?
11. Early mammals were in an evolutionary *arms race* against which type of predator?
12. We make two changes to overcome predation, what are they?
13. How are we adapted to survive the cold?
14. How do we evolve to protect our offspring from dinosaurs?
15. How did early mammals survive the asteroid that killed the dinosaurs?
16. 60 m.y.a. trees developed _____ which helped our survival. Ultimately, this spurred us to live off the ground and in the trees.
17. What new group of mammals developed to live in the trees? (from which we are descendants)
18. What locomotion evolved to allow us to attain more food, shelter and a mate?
19. Why are our infants born underdeveloped?
20. What did we trade our jaw muscles for?
21. What is *Homo habilis* famous for?
22. What part of our hand strengthened, and why?
23. 1.8 m.y.a. fossils of which new species of hominid were discovered?
24. Speed is not our advantage, endurance is- how are we developed to be able run longer than our prey?
25. Discovery and use of _____ made us *human*?
26. Why do humans live as families?
27. What does the video state is our greatest tool?
28. What does *Homo sapiens* mean, and how long ago did they evolve?

****Key Concepts**

- A) Evolutionary changes were slow, and always in response to changes in the environment, predation or favorable mutation
- B) The evolution of humans was not linear or easy. We spent most of our time foraging and hiding because we were not the dominant species on the planet.

Please list 10-15 major evolutionary changes, adaptations or advantages in our lineage that allowed us to become the most dominant species on the planet... for now...