

Evolution and Classification Test Review ***Ch. 15-18***

Resources:

1. Textbook Ch. 15-18
2. Darwin and Natural Selection Notes
3. Evolution Lab
4. Classification Notes
5. Classification Lab
6. Population Genetics Notes
7. Hardy Weinberg Activity
8. Life through Time Notes
9. Birth of Earth video

Key Concepts:

1. Be able to apply and understand Linnaeus's system of classification
2. How did mass extinctions lead to evolution of new species?
3. How do you write a scientific name?
4. Know how to use a phylogenetic tree
5. Know the levels of organization
6. What are derived characters?
7. What are homologous structures?
8. What are some characteristics of Kingdom Mammalia?
9. What are vestigial structures?
10. What did Darwin observe in finches?
11. What did people of Darwin's time believe about fossils?
12. What do we think were the first organisms on Earth?
13. What does the Endosymbiotic theory state?
14. What domain corresponds to Kingdom Eubacteria?
15. What group of organisms can live in extreme environments?
16. What is a cladogram?
17. What is a necessary condition for evolution of the first life on Earth?
18. What is an opposable thumb? What groups have an opposable thumb?
19. What is artificial selection?
20. What is binomial nomenclature?
21. What is cladistic analysis?
22. What is coevolution?
23. What is convergent evolution?
24. What is fitness by Darwin's definition?
25. What is punctuated equilibrium?
26. What is survival of the fittest?
27. What is the law of superposition?
28. What is the theory of natural selection?
29. What is unique about the kingdom Protista?
30. What kingdom has cell walls made of chitin?
31. What kingdoms are eukaryotes?
32. What were the dominant land animals of the Jurassic and Cretaceous periods?
33. What would be evidence of a common ancestor?
34. Where did Darwin travel on the *Beagle*?
35. Who is Darwin and what did he state?
36. Who is Lamarck and what did he state?
37. Why do biologists need to classify organisms?
38. Why don't scientists use common names?