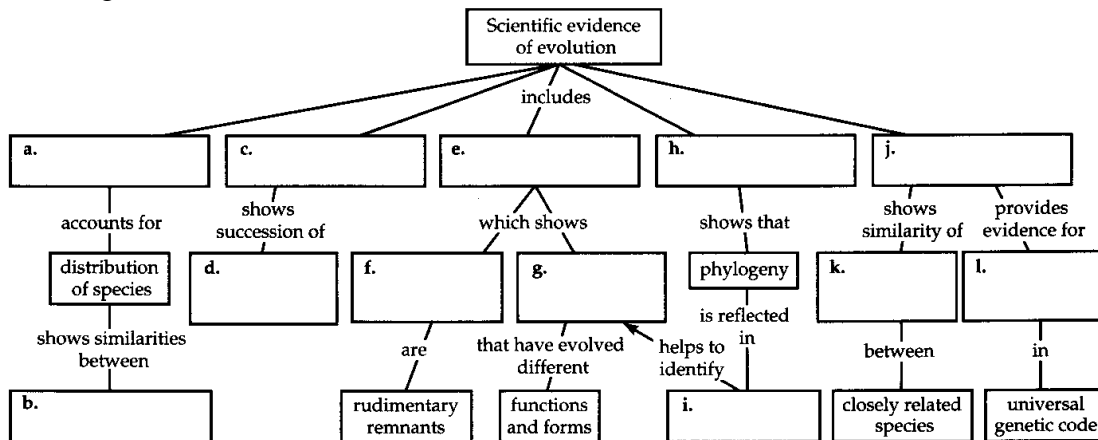


1. – 8. Fill in the table with the theory or philosophy and its proponents and its description.

Proponent	Theory	Description
1. Aristotle		
2. Cuvier		
3. Hutton		
4. Lamarck		
5. Linnaeus		
6. Lyell		
7. Plato		
8. Darwin		

9. Place the people in the previous questions in chronological order.

10. Complete the following concept map that summarizes the five main source of evidence for evolution. Use a ruler to make straight lines.



11. What are the main components of Darwin's theory of evolution?

C-MC

12. What is a homologous structure? Give an example of a structure that is homologous to the wing of a bat?

13. What does it mean by "succession of flora and fauna"? What gives us evidence that this succession has occurred?

14. What idea(s) did Darwin take from Malthus?

15. What is an acceptable definition of evolution?

16. Charles Lyell was an advocate of

- a. use and disuse
- b. uniformitarianism
- c. industrial melanism
- d. the modern synthesis
- e. the inheritance of acquired characteristics

17. Which part of Darwin's theory was incorporated from the ideas of Hutton?

18. Completely discuss the adaptation of the moth, *Biston betularia*.

19. How would you describe Darwin? Label his philosophy.

20. Ichthyosaur was an aquatic dinosaur. Fossils show us that it had a dorsal fin and a tail just as fish do, even though its closest relatives were terrestrial reptiles that had neither dorsal fins nor aquatic tails. Discuss the dorsal fins and tails of ichthyosaurs and fish.

31. Who was the naturalist who synthesized a concept of natural selection independently of Darwin?

32. What was the prevailing notion about the earth before Lyell and Darwin?
33. What is the role of mutation in natural selection?
34. Upon what did Linnaeus base his classification system?
35. One finds that organisms on islands are different from, but closely related to, similar forms found on the nearest continent. What is this evidence for?
36. The taxonomic system developed by Linnaeus is best described as a _____.
37. What would be the best technique for determining the phylogenetic relationship among several closely related species?
38. How does Darwin's explanation of evolution differ from that of Lamarck?
39. Define fossil.
40. What are the ways in which the time an organism lived on earth is determined?