

1. What is evolution?

2. What is adaptation?

Give an example of an animal adaptation.

Give an example of a plant adaptation.

3. What 2 conditions are necessary for fossil formation?

How do fossils found in upper layers of soil differ from fossils found in lower layers of soil?

4. Why are there gaps in the fossil record?

5. How do transition fossils (such as those for the horse and whale) provide evidence for evolution?

6. What is a vestigial structure?

Give two examples from different organisms.

7. How do homologous structures (appendages of human, cat, dolphin, and bat) provide evidence for evolution?

8. How does DNA provide evidence for evolution?

9. What training did Darwin get in college?

10. What was Darwin's job on the Beagle?

11. Explain Darwin's thoughts in comparing finches he saw on the Galapagos Islands to those he saw in South America.

12. What information did Charles Lyell provide about the Earth?

How did this influence Darwin?

13. What information did Thomas Malthus provide concerning populations?

How did this influence Darwin?

14. How did Alfred Russell Wallace's ideas compare to Darwin's?

15. What are the four factors in Natural Selection?

Factor Name	Describe the Factor
1.	
2.	
3.	
4.	

16. What is responsible for the genetic variations we see in organisms?

17. Describe how insects develop resistance to insecticides.

18. Describe the evolution of the peppered moth (before 1850 and after 1850).