

Name: _____

Date: _____ Hour: _____

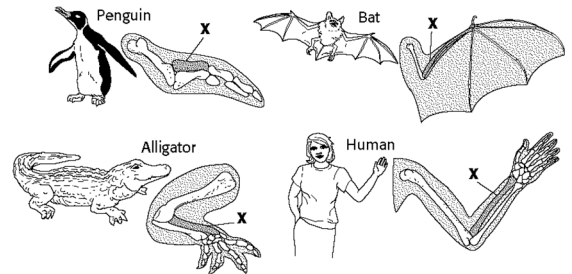
1. In an evolutionary sense, explain how an organism has a high fitness: _____

2. Who was scientist was responsible for defining the process of how evolution occurs: _____

3. State Darwin's theory of evolution by natural selection: _____

4. Define and give examples of vestigial structures: _____

5. Explain the illustration to the right:



6. Explain the process of natural selection: _____

7. What is the biological definition of evolution? _____

8. Another name for natural selection is _____

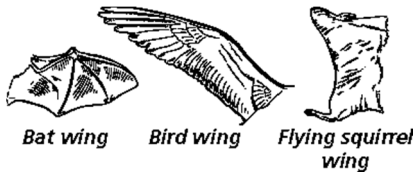
9. Which islands did Darwin explore to discover and study evolution? _____

10. In biology, adaptation is a term that refers to what? _____

11. In Biology, the term fitness describes: _____

12. When looking for proof of evolution, dead organisms in rock provide proof. What is this called? _____

13. Which term best describes the structures shown in the figure below? _____



14. When looking at sedimentary rock, where is the oldest rock located? _____

15. What are anatomically similar structures inherited from a common ancestor are called? _____

16. Organs that are not useful to current organism, but may have been to an ancestor are called what? _____

17. Organs that have the same function but different form and were not inherited from a common ancestor are called: _____

18. In a population of turtle, half have longer necks and half have shorter necks. All the turtles try to reach as far as they can to eat the leaves from the low branches of trees. In the next generation of turtles, **more** than half of the offspring have longer necks. Explain who evolved and why?

19. During the industrial revolution in England, the peppered moth population evolved in just half a century. The previously numerous light moths became scarce, and the formerly scarce darker ones became most numerous. Why did darker adaptation of moths become more populated?

20. The robber fly looks like a large bumblebee and even sounds like a bumblebee. These characteristics warn off potential predators. This is an example of:

