Evolution Review Worksheet

1. What is the **scientific** definition of evolution?
2. Who is Darwin and what are some facts about him?
3. Briefly explain Darwin's 3 main ideas about natural selection.
4. What is natural selection?
5. Describe the four components of natural selection.
6. Name, describe and draw the three ways natural selection occurs.
7. List the 6 evidences for evolution.
8. What is a structural adaptation? Give two examples of structural adaptations and explain how they help species survive.
9. What is a physiological adaption and give an example.
10. How do fossils give evidence of evolution?
11. Explain how relative dating works.
12. What is absolute dating and how does it work? Know how to compute a half life problem.
13. What are homologous structures? How do they provide evidence for evolution? Know example
14. What are analogous structures? Know example.
15. What is a vestigial structure? Give examples. Why is this considered evidence for evolution?
16. How is embryology and biochemistry evidence for evolution?
17. What is a species?
18. What is speciation?
19. Explain the three ways a species can evolve. (geographic and reproductive isolation, change in chromosome number)
20. What is Divergent Evolution?
21. What is convergent evolution?
22. What are three statements that describe a population?
23. Explain the 3 ways to have change in equilibrium. (gene flow, genetic drift, mutations)
24. What is an example of genetic drift?
25. Be familiar with the labs/activities that we did in class and how those activities showed evolution and survival of a species.