Topic: Evolution Study Guide

Summary: Students will fill out a worksheet with information on what they will be tested on.

Goals & Objectives: Students will be able to explain natural selection, the evolution of populations, and example evidence.

Time Length: 20 minutes

Standards: CA Biology 7*a, 7b*, 7c 7d, 8a, 8b, 8c, 8d, 8e.

Materials:
Textbook, class notes, and pencil or pen

Procedures:
Hand out this worksheet before introducing evolution. Students are to fill in this worksheet while you teach. Students then use this worksheet as a central place to study from to prepare for a test or quiz.

Accommodations:
Students with an IEP may work with a partner filling in the definitions.

Evaluation:
Each question is worth ½ point, for a total of 15 points.

Name: _____ Row: _____

Date:_____ Period:_____

Evolution Study Guide

(Write definitions or explanations)

1. What famous islands did Darwin study? _____

To where did he compare the island's plants and animals? _____

2. What was the name of his famous book about evolution? _____

_____

3. What is fitness? Describe survival of the fittest _____

_____

4. What is descent with modification, and how do fossils help show it? _____

_____

5. What are fossils? Give examples. _____

_____

6. What are the two ways of dating fossils? Explain both. _____

_____

_____

7. What is adaptation? _____

_____

8. What is a population? Give an example. _____

_____

9. What is artificial selection? _____

_____

10. What is divergent evolution? _____

_____

11. Explain the process of natural selection. _____

_____

_____

12. What is a homologous structure? Give an example. _____

_____

13. What are vestigial organs? Give examples. _____

_____

_____

14. What are the two types of mutations? _____ _____

15. Explain 1st mutation type _____

_____

16. Explain 2nd mutation type _____

_____

17. What is gene shuffling? _____

_____

18. Draw a directional selection graph on the right and describe _____

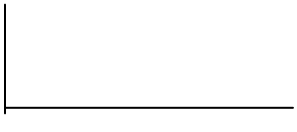
_____

19. Draw a stabilizing selection graph on the right and describe _____

_____

20. Draw a disruptive selection graph on the right and describe _____

_____



21. What is genetic drift? _____

_____

22. What is an ecological race? _____

_____

23. How does isolation relate to speciation? _____

_____

24. What is speciation? _____

_____

25. What defines a species? _____

_____

26. What are gene pools? _____

_____

27. What is convergent evolution? _____

_____

28. What are analogous structures? _____

_____

29. What is the model for slow changes of evolution over time? _____

What is the model for rapid changes separated by no changes over time? _____

_____

30. What is extinction? _____

_____