Outcome 4A and 4B – History, Evidence and Mechanisms of Evolution

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period 1 2 3 4 5 6 7

**CORRECTIVES**

1. Define the 3 types of geological change: catastrophism, gradualism, and uniformitarianism
2. What did these 3 scientists contribute to the Theory of Evolution and what type of scientist were they:
	1. Lyell: b. Lamarck: c. Malthus:
3. What is evolution?
4. Who is Charles Darwin, what famous book did he publish, and what were his 3 main points?
5. Describe Descent with Modification using an example.
6. What are the 4 Mechanisms of Evolution?
7. Describe how a Mutation can cause a population to evolve. Give an example.
8. Describe Gene Flow: a. Immigration b. Emmigration
9. Describe how Genetic Drift can cause a population to evolve. Give an example.
10. Describe how Genetic Flow can cause a population to evolve. Give an example.
11. What is an adaptation? Give an example.
12. Explain the difference between a physical adaptation and a behavioral adaptation.
13. What is a population?
14. Explain Natural Selection using Darwin’s finches, turtles or other example we discussed.
15. Describe how Natural Selection can cause a population to evolve. Give an example.
16. When an organism has a high level of fitness what does that mean?
17. Define a species.
18. What is Speciation?
19. Describe the 5 pieces of evidence that support the process of evolution and the names of the scientist who study them.
20. What is the difference between homologous, analogous and vestigial structures?