**Evolution Study Guide**

1. What is natural selection and who found this mechanism? What is an adaptation?

2. What are the three types of reproductive isolation for speciation? How do they differ? Give examples.

3. What causes something to end genetic equilibrium and evolve?

4. What is genetic equilibrium? What happens when a species in in equilibrium?

5. What is a gene pool and Allele Frequency?

6. What are the three types of anatomical structures we talked about in embryology? What are examples of each?

7. What does survival of the fittest mean? What decides which trait/adaptation are the best for survival?

8. What is divergent and convergent evolution? Give examples of each.

9. Explain three types of evidence for evolution. How can we tell how closely related organisms are for each type of evidence?

10. What are the three types of directions for natural selection? How are they different? Be able to identify each in a graph and be able to identify from each of them from a word problem.

11. What is artificial selection?

12. What are the types of point mutations and how do they lead to evolution.