

**Target Practice, Unit 8 Test, Topic #2 – Evidence for Evolution**

1. Use the chart below to explain the difference between Lamarck and Darwin’s theories of evolution.

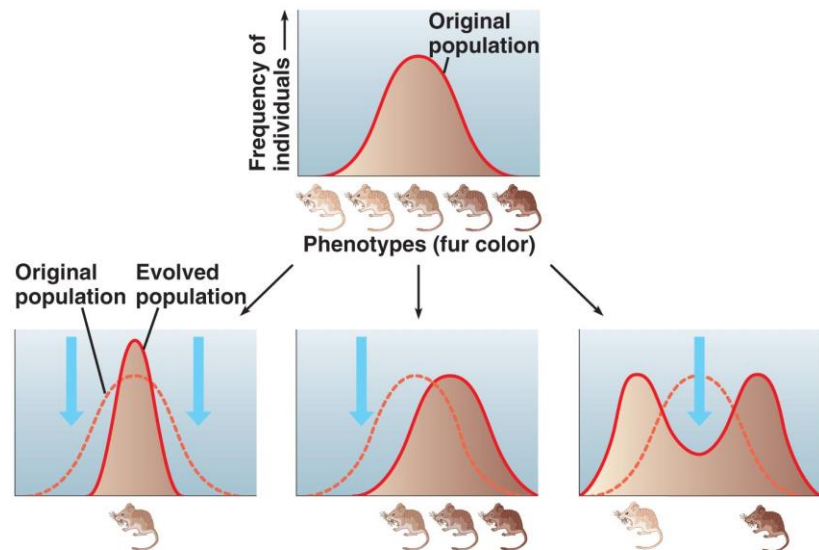
<b>Scientist</b>	<b>Name of Theory</b>	<b>Brief Description</b>	<b>Example</b>

2. The following are all considered to be different evidences for the theory of evolution. For each piece of evidence, briefly describe what it is, explain how it provides evidence for evolution and provide an example.

<b>Type of Evidence</b>	<b>Description</b>	<b>How does it provide evidence?</b>	<b>Example</b>
Comparative Biochemistry			
Comparative Embryology			
Comparative Anatomy (Homologous Structures)			
Comparative Anatomy (Analogous Structures)			
Comparative Anatomy (Vestigial Structures)			

3. What are the important aspects to the Theory of Natural Selection? How do Darwin's Finches and the Peppered Moths provide examples of Natural Selection?
  
4. In today's world, there are several hundred different breeds of dogs. What process allowed for so many different types of dogs (i.e. natural selection, artificial selection, etc.)? Are all of these breeds of dogs of the same species? Why or why not?

5. Using the image to the right, determine what type of natural selection is occurring in each of the three graphs. For each one, also determine what the future generation of mice will look like (what will their fur color be)?



6. Define each of the following and explain how each relates to evolution. Be sure to include a real-life example of each.
  - a. **Convergent**
  
  - b. **Divergent**
  
  - c. **Co-Evolution**
  
  - d. **Adaptive Radiation**