

Appendix A: Pre/Post-Test

Evolution Pre-test/Post-Test

1. MRSA is classified as what kind of living thing?
 - a. An animal
 - b. A plant
 - c. A fungus
 - d. A bacterium

2. What is the definition of an adaptation?
 - a. A change in an organism genetic make-up
 - b. A characteristic that helps an organism survive
 - c. A process where entire populations change over time
 - d. A process where the environment controls the frequency of certain traits appearing in a population

3. What is the definition of evolution?
 - a. A change in an organism genetic make-up
 - b. A characteristic that helps an organism survive
 - c. A process where populations change over time
 - d. A process where the environment controls the frequency of certain traits appearing in a population

4. What is the definition of natural selection?
 - a. A change in an organism genetic make-up
 - b. A characteristic that helps an organism survive
 - c. A process where populations change over time
 - d. A process where the environment controls the frequency of certain traits appearing in a population

5. What is the definition of a mutation?
 - a. A change in an organism genetic make-up
 - b. A characteristic that helps an organism survive
 - c. A process where populations change over time
 - d. A process where the environment controls the frequency of certain traits appearing in a population

6. At what ecological level does evolution occur?
 - a. Community
 - b. Individual
 - c. Population
 - d. Biome

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7. All mutations lead to the expression of new physical characteristics.
 - a. True
 - b. False
8. Organisms can develop adaptations during their lifetime and pass on these traits to their offspring.
 - a. True
 - b. False
9. Extensive amounts of research must be submitted to support scientific theories.
 - a. True
 - b. False
10. Which of the following scenarios is an example of evolution?
 - a. Baby ducks following their mother around and mimicking her behaviors to improve their ability to survive; the offspring continue to perform those behaviors during their lifetime.
 - b. A population of birds begin developing shorter beaks over time due to the lack of available resources on the island which they live; the environment selected against larger beaks.
 - c. A dog is learning to associate being fed with the ringing of a bell; the dog continues to exhibit this behavior as long as it is enforced.

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