

1. Write the definition of evolution. Give an example.

Evolution is the change in a population over a gradual period of time. Examples: the peppered moths changed colors as their environment changed color.

2. Why does evolution occur? Explain using: natural selection, variation, and random mutations.

Random mutations occur in populations all of the time. Mutations that produce variations (ie white fur instead of brown) sometimes help an organism ADAPT to its environment BETTER. Organisms that are better adapted are more likely to live and produce offspring. Eventually, this trait can take over a population.

3. How does studying embryos give us clues to which organisms are most closely related? Give an example.

Embryos that have the most similarities throughout gestation are most likely more closely related. For example, the rabbit and the human are almost identical up until the third trimester.

4. What is the difference between artificial and natural selection. Give examples of each.

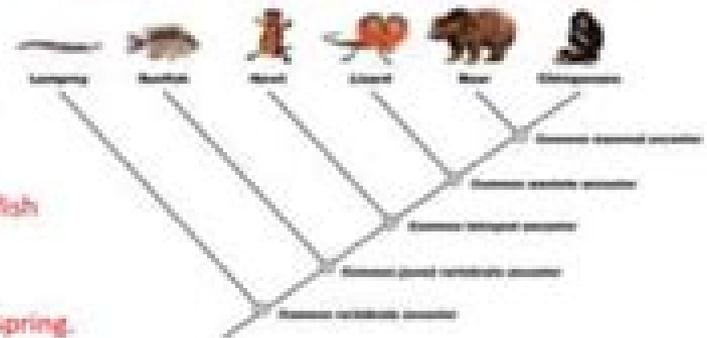
Artificial is driven by humans while natural selection is driven by nature. Dogs are an example of artificial selection while wolves are an example of natural selection.

5. Describe the bunny lab. What made the bunny population grow? Disappear? Change?

In the bunny lab, you could add mutations that enabled the bunnies to better adapt to their environments (ie food sources, habitat, predators). A favorable trait quickly replaced the less favorable one.

6. Below is a phylogeny (tree of common ancestors):

- How are common ancestors indicated? **Intersecting lines.**
- Which organisms are most closely related? **Bear/Chimp**
- Which organisms are least related? **Lamprey/Chimp**
- Which organism is most closely related to a Lamprey? **Sunfish**



7. What is the definition of a species?

A population of animals that can interbreed and produce fertile offspring.

8. Are ligers, zorses, and mules considered their species? Why or why not?

No. They can mate but their offspring are sterile. You cannot breed two ligers and make more ligers.

9. Define "niche" and "competition". Give examples of each.

A "niche" is the role or function of an organism in its environment. "Competition" is a negative interaction between organisms where they are competing for the same limited resource (ie food or shelter). Examples: a predator's "niche" is often to control prey populations. "Competition" occurs between filters who compete and hunt in overlapping territories.

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Answer Key

M Mark



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