

AP Biology Unit #7 – Evolution
STUDY GUIDE

1. Explain how each of the following relate to Natural Selection:

Genetic Diversity – Alters gene activity or protein function that can introduce different traits in an organism, with that being said, if a trait is advantageous for the individual to survive and reproduce, the genetic variation is more likely to be passed to the next generation.

Overproduction of offspring – When living organisms produce more offspring than they can survive. With that being said, it is a driving force that can lead to adaptation and variation in a species.

Competition – The direct or indirect interaction of organisms that leads to a change in fitness when the organisms share the same resource. With that being said, competition is a basic factor in natural selection.

Reproduction – The production of offspring. With that being said, genetic mutations that are beneficial to an individual's survival are passed on through reproduction which results in new generation of organisms that are more likely to survive to reproduce.

2. What is meant by Fitness in Biology? List at least 4 different environmental factors that affect a species "fitness" or survival. Ability to survive AND reproduce.

- Organisms with "better" traits will be able to survive and reproduce more.
- Food is crucial for survival and allowing organisms to reproduce.
- Competition for a mate allowed the organisms to reproduce and survive.
- Organisms being in the right temperature allows them to survive and reproduce.

3. Why is "survival of the fittest" an incomplete description of natural selection?

Survival of the fittest is the phrase that suggests that organisms that are best adjusted to their environment are the most successful in surviving and reproducing. This doesn't include how important reproduction is and without and reproduction, the population will not allow organisms to even adjust and be successful in surviving and reproducing.

4. Why is it that an individual can not evolve; only populations can evolve?

An individual can not evolve; only populations can evolve because it involves the change in gene pools over time. With that being said, an individual cannot change it's genes. However, populations can since a shift can be seen in gene frequencies with generations showing evolution.

5. Explain how each of the following are used to support evolutionary relationships among species:

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Rocky Termanini



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