

Understanding Evolution Webquest: Mechanisms

PUT ANSWERS IN BOLD IF TYPING, print when complete.

Go to: <http://evolution.berkeley.edu/evofiles/articles/m.14>

1. Fundamental to the process of evolution is **genetic variation** upon which **selective forces** can act.
2. Evolution is descent with **modification** from a **common ancestor**.
3. Evolution only occurs when there is a change in **gene frequency** within a **population** over time.
4. How does the beetle in example 2 showing evolution?

Color change from mostly green to mostly brown.

5. What are the 4 mechanisms of change?
 - a. **Mutation**
 - b. **Migration**
 - c. **Genetic drift**
 - d. **Natural selection**
6. What are the sources of genetic variation?
 - a. **mutation**
 - b. **Gene flow**
 - c. **sex**
7. Mutations can be **beneficial**, **neutral**, or **harmful** to an organism, and overall are considered to be **random** as they do not try to change the organism.
8. What does mean thing it is called a mutation to occur?

DNA fails to copy accurately

External influences—(chemicals and radiation)

9. What is gene flow? Provide examples from the introduction.

Migration of populations (and their genes) from one area to another

Ex. Pollen being blown or people moving to new places

10. When organisms reproduce sexually, some **genetic shuffling** occurs, bringing together new **combinations of genes**.
11. Why is this shuffling important to evolution?
But since it can introduce new combinations of genes in every generation

Evolution Webquest Answer Key For Biology

Roger Todd Patterson



Evolution Webquest Answer Key For Biology:

Evolution Webquest Answer Key For Biology Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Evolution Webquest Answer Key For Biology**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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