

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

Biology Evolution Webquest Answer Key

Roger Todd Patterson



Biology Evolution Webquest Answer Key:

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 Evolution and the Origin of Species , 1800

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