

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

JS Bruner



Biology Evolution Webquest Answer Key:

The book delves into Biology Evolution Webquest Answer Key. Biology Evolution Webquest Answer Key is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Biology Evolution Webquest Answer Key, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Biology Evolution Webquest Answer Key
 - Chapter 2: Essential Elements of Biology Evolution Webquest Answer Key
 - Chapter 3: Biology Evolution Webquest Answer Key in Everyday Life
 - Chapter 4: Biology Evolution Webquest Answer Key in Specific Contexts
 - Chapter 5: Conclusion
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6. In chapter 5, this book will draw a conclusion about Biology Evolution Webquest Answer Key. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Biology Evolution Webquest Answer Key.

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