

Understanding Evolution: Web-gene: Mechanisms

PUT ANSWERS IN BOLD IF TYPING, print when complete.

Go to: http://evolution.berkeley.edu/evolibrary/article/new_14

1. Fundamental to the process of evolution is **genetic variation** upon which **selective forces** can act.
2. Evolution is identical with **adaptive change** from a **randomly assorted**
3. Evolution only occurs when there is a change in **gene frequency** within a **population** over time.
4. How does the benefit in example 2 increase evolution?

Color change from mostly green to mostly brown.

3. What are the 4 mechanisms of change?
 - a. **Mutation**
 - b. **Migration**
 - c. **Genetic drift**
 - d. **Natural selection**
4. What are the sources of genetic variation?
 - a. **mutation**
 - b. **Gene flow**
 - c. **sex**
5. 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.
6. What does mean being a bad driver is mutation to occur?

DNA fails to copy accurately

External influences—(chemicals and radiation)

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

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

Ex. Pollen being blown to a pond by 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

Rumi Michael Leigh



Evolution Webquest Answer Key For Biology:

Pocket Evolution Rumi Michael Leigh, 2019-09-08 This book will explain the theory types of evolution aspects of evolution with examples It will make you discover evolution in its entirety All in the form of questions and answers to facilitate understanding of the subject

Evolution Exposed Roger Todd Patterson, 2007 A creationist s critique of the evolutionary ideas found in the four most popular biology textbooks used in public schools

- 1 Glencoe science biology the dynamics of life Alton Biggs et al Florida ed New York Glencoe McGraw Hill c2006
- 2 Biology exploring life Neil A Campbell Brad Williamson Robin J Heyden Florida teacher s ed Upper Saddle River N J Pearson Prentice Hall 2006
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Evolution Francisco José Ayala, 2012

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