

Title: Evolution 101

Please go to:

http://evolution.berkeley.edu/evolibrary/article/0_0_0/evo_toc_01

Click on Mechanisms: The process of evolution, then read this page
Click on mechanisms of change- which is underlined in blue.

One way to define evolution is descent with modification over time. After reading this page answer the following question:

1: Name and explain the four mechanisms of change:

A.

B.

C.

D.

Now, on the bottom right hand side of the screen click on Genetic Variation. This should bring you to the next page.

2. Explain the three components of genetic variation?

A.

B.

C.

Now click on mutations at the bottom right hand side of the screen. This should take you to the next page.

3. Why are mutations random?

4. Why are not all mutations significant for evolution?

Now click on the Table of Contents at the top of the page. Scroll down to 3.Mechanisms: The Process of Evolution and click on “ natural selection”, which is underlined in blue Using this page, summarize the key components of natural selection..

5. Natural selection is....

Now on the bottom right hand side of the screen, click on “Natural Selection at Work”. This will take you to the next page. Read this page, then again click on the lower right hand side of the screen on “ What about fitness” and answer the following questions:

6. How do biologists use the word fitness? What does it describe?

Now click on the Table of Contents at the top of the page. Scroll down to 3. Mechanisms: The Process of Evolution and click on “adaptation”. Answer the following question about adaptations:

7. How does an adaptation make an individual more suited for a particular environment? How is an adaptation shaped by natural selection?

This website has a wealth of information regarding evolution and adaptation. Take some time to click on the links and resources provided.