

**Evolution WebQuest**

Learn about the basics of evolution at [http://evolution.berkeley.edu/evolibrary/article/evo\\_14](http://evolution.berkeley.edu/evolibrary/article/evo_14)

1. What is **evolution** and what is it responsible for?
2. Click next. When does evolution take place?
3. Only inherited \_\_\_\_\_ differences that can be passed on are acted upon by evolution.
4. Compare the two examples of changes in beetle populations. Which of the two scenarios is an example of evolution? *Defend your answer with an explanation.*
5. Click next. Identify and describe the four basic mechanisms for evolutionary change.
6. Click next until you get to mutations and copy and complete this statement:

Mutations can be \_\_\_\_\_, neutral, or \_\_\_\_\_ for the organism, but mutations do not "try" to supply what the organism "needs." In this respect, mutations are \_\_\_\_\_ whether a particular mutation happens or not is unrelated to how useful that mutation would be.

8. Click next several times until you see natural selection:

Natural selection is the most important mechanism behind evolution. This webpage gives you an example of natural selection involving beetles. Read the descriptions and look at the cartoons. Explain what has happened to this population of beetles, using the following terms: *Adaptation, Survive, Reproduce, Gene, Natural Selection, Species, and Evolution.*

9. Click next. Fitness does not necessarily mean "strongest." *Defend this statement.*