

## Evolution in Action Review

Name \_\_\_\_\_ Period \_\_\_\_\_

Read the article as a group and discussing what you read focusing specifically on the methods that scientists used to gather evidence to document the evolution of species. To guide your discussion, read and answer the following questions.

1. Describe what natural selection is and how it affects the process of evolution.
2. From the article, what was the animal that was experiencing natural selection?
3. What had changed in the animal's environment that was forcing the animal to adapt in order to survive?
4. Describe the methods the scientists in the article used to study the effects of natural selection:
  - a. From what specific areas were the test animals collected? Why was this important?
  - b. Where did the testing on these animals take place? Why?
  - c. How did the scientists test the response of the animal to the environmental changes?
  - d. When being attacked, what were the 2 different ways the test animals responded to the attack?
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  - e. Which response would eventually be selected for and which would be selected against?
  - f. Other than response to attack, what other trait helped the test animal survive?
  - g. Describe, in detail, how this other trait would be selected for and against.

5. Make a guess based upon the evidence from this experiment, what 2 characteristics would the majority of these animals have in the next 10,000 years if environmental factors stayed the same?

Use this picture of the fence lizard to answer the next question:



6. Draw what the lizard might look like in the future: