



LIZARD EVOLUTION VIRTUAL LAB

Directions: Begin in the Introduction Tab. Read the Introduction and watch the Welcome to the Lizard Evolution Lab. Answer the following questions as you finish each module of the virtual lab.

Click on **Module 1: Ecomorphs** and follow the directions as you work through the information.

1. At the beginning of the virtual lab, you were asked to sort eight lizards into categories. What criteria did you initially use to make your groups? Did you revise your criteria later? Why?

I based my criteria off of the legs. I chose the size of the legs because I think that each of the different anoles had evolved based on their habitat. I did not revise my criteria.

2. An adaptation is a structure or function that is common in a population because it enhances the ability to survive and reproduce in a particular environment. Provide one example and an explanation of one adaptation in the Anolis lizards. One adaptation is the short legs on the sheplani hispaniola anolis lizard. I think this is because of the slim branches it was on. The shorter legs made it easier for the lizard to hold onto the slimmer branches.
3. Provide one evolutionary explanation for why lizards living in the same part of the habitat (i.e., grass) would have similar characteristics. Lizards in the same habitat would have similar characteristics because there are many ways to do something, however there is only one way that is the best for surviving. Basically, lizards in the same habitat have the characteristics that are most fit for survival, so most lizards in that habitat would exhibit those most fit characteristics.
4. What is an ecomorph? Provide one example from the virtual lab. Ecomorphs are species with similar body types and habitats. An example is how the sheplani Hispaniola and occultus Puerto Rico lizards both have short legs.

Virtual Lab Lizard Evolution Virtual Lab Answer Key

DJ Losen



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