



## LIZARD EVOLUTION VIRTUAL LAB

Answer the following questions as you finish each module of the virtual lab or as a final assessment after completing the entire virtual lab.

### Module 1: Ecomorphs

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?

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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.

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3. Provide one evolutionary explanation for why lizards living in the same part of the habitat (i.e., grass) would have similar characteristics.

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4. What is an ecomorph? Provide one example from the virtual lab.

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5. How is an ecomorph different from a species?

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6. Explain how a particular body feature of one of the lizard ecomorphs from the virtual lab is an adaptation to their particular niche.

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**Module 2: Phylogeny**

1. In module 1, you identified which species of lizards were most similar to one another based on relative limb length and toe pad size. In this module, you determined which lizards are more similar to one another based on what type of information?

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2. Are the species of lizard that are more similar to one another according to body type also more closely related based on the results obtained in this module?

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