

Name: _____



LAB EXERCISE 5: Lizard Evolution Virtual Lab

Answer the following questions as you finish each module in the virtual lab.



MODULE 1: Introduction



1. In this introductory module video, you were asked to sort eight lizards into categories. What criteria did you use to sort the lizards into groups?

They were sorted by color and size of the lizards.



2. Did you notice great variation here? Why?

Yes, because the lizards had different colors and sizes. Some were very small and some were very large. Some were very colorful and some were very plain.



3. An adaptation is a structure or function that the organism has as a population because it increases the ability to survive and reproduce in a particular environment. Provide one example and an explanation of an adaptation in the lizard world.

One example of an adaptation is the ability to change color. This is a survival adaptation because it helps the lizard hide from predators and catch prey.



4. Provide one evolutionary explanation for why diversifying in this world isn't always beneficial (i.e., the grass) would have limited a lizard's fitness.

One evolutionary explanation is that diversifying in this world isn't always beneficial because it can lead to a loss of genetic diversity, which can reduce the population's ability to adapt to changes in the environment.

Lizard Virtual Evolution Lab Teacher Answers

Dorothy Hinshaw Patent



Lizard Virtual Evolution Lab Teacher Answers:

Learning and Leading with Technology, 2000 **Behavior of Lizards** Vincent Bels, Anthony Russell, 2019-02-06 Key features Presents a contemporary snapshot of the mechanisms underlying the evolution and adaptation of behavior Explores how genetics epigenetics development and environment shape behavior Discusses a broad range of behavioral repertoires and responses including those related to thermoregulatory foraging predatory displaying social and escape strategies Examines physiological and sensory mechanisms Covers the effects of various aspects of global change on behavior with chapters that focus on the impacts of climate change on hydoregulatory behavior and behavioral responses to the effects of habitat alteration resulting from human mediated change and colonization by invasive species Lizards serve as focal organisms for many of biological questions related to evolution ecology physiology and morphology They are studied at multiple spatial and temporal scales from the individual to the community level This book authored by expert contributors from around the world explores behaviors underlying the evolution and adaptation of these organisms It covers conceptual empirical and methodological approaches to the understanding of the role that natural and sexual selection play in molding the behavioral traits of lizards This thorough illustrated reference should stimulate discussion of the conceptual and methodological approaches for studying the behavioral traits of these fascinating and highly diverse vertebrates *The Lizard Scientists* Dorothy Hinshaw Patent, 2022-12-13 In this groundbreaking exceptionally researched installment of the award winning Scientists in the Field series discover how lizards rapidly adapt to life in the Caribbean islands allowing scientists to study Charles Darwin's theory of evolution by natural selection in real time Award winning author Dorothy Hinshaw Patent joins forces with scientists filmmakers Neil Losin and Nate Dappen whose work is detailed in the Smithsonian Channel documentary Laws of the Lizard to explore how the small but mighty lizards we call anoles are used by scientists to study basic principles of evolution and ecology Travel with the team to Florida and the Caribbean as they research how anoles followed similar but independent evolutionary paths on the four major islands of the Greater Antilles Puerto Rico Hispaniola Jamaica and Cuba So while anoles on different islands may look like close relatives they often are not This is Darwin's principle of natural selection at work And it makes anoles the perfect subjects for experiments that study how animals adapt to new challenges such as climate change in this exciting and timely addition to a celebrated series

Embark on a breathtaking journey through nature and adventure with Crafted by is mesmerizing ebook, Witness the Wonders in **Lizard Virtual Evolution Lab Teacher Answers** . This immersive experience, available for download in a PDF format (PDF Size: *), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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