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.

 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 hispanola 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.
- Provide one evolutionary explanation for why lizards living in the same part of the habitat (i.e.,
 grass) would have similar characteristics. <u>Lizards in the same habitat would have similar</u>
 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.
- What is an ecomorph? Provide one example from the virtual lab. <u>Ecomorphs are species with</u> similar body types and habitats. An example is how the sheplani Hispaniola and occultus Puerto Rico lizards both have short less

Lizard Evolution Lab Answers

Jonathan Losos

Lizard Evolution Lab Answers:

Complete IELTS Bands 4-5 Workbook with Answers with Audio CD Rawdon Wyatt, 2012-02-09 This text prepares students for the IELTS test at B1 foundation level It is designed to introduce students to the critical thinking required for Chapter Resource 13 Theory/Evolution Biology Holt IELTS and provide strategies and skills to maximise their score Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Science for Ninth Class Part 1 Biology Lakhmir Singh & Manjit Kaur, A series of books for Classes IX and X according to the CBSE syllabus and CCE Pattern NINTH CLASS PART 3 BIOLOGY LAKHMIR SINGH, A series of six books for Classes IX and X according to the CBSE syllabus Each class divided into 3 parts Part 1 Physics Part 2 Chemistry Part 3 Biology Aerospace Medicine and Biology 1975 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA Robo Sapiens Peter Menzel, Faith D'Aluisio, 2000 Information about intelligent robots and their makers including photographis interviews behind the scenes information and technical date about machines that is easy to Spider Webs William Eberhard, 2020-12-22 In this lavishly illustrated first ever book on how spider webs are understand built function and evolved William Eberhard provides a comprehensive overview of spider functional morphology and behavior related to web building and of the surprising physical agility and mental abilities of orb weavers For instance one spider spins more than three precisely spaced morphologically complex spiral attachments per second for up to fifteen minutes at a time Spiders even adjust the mechanical properties of their famously strong silken lines to different parts of their webs and different environments and make dramatic modifications in orb designs to adapt to available spaces This extensive adaptive flexibility involving decisions influenced by up to sixteen different cues is unexpected in such small supposedly simple animals As Eberhard reveals the extraordinary diversity of webs includes ingenious solutions to gain access to prey in esoteric habitats from blazing hot and shifting sand dunes to capture ants to the surfaces of tropical lakes to capture water striders. Some webs are nets that are cast onto prey while others form baskets into which the spider flicks prey Some aerial webs are tramways used by spiders searching for chemical cues from their prey below while others feature landing sites for flying insects and spiders where the spider then stalks its prey In some webs long trip lines are delicately sustained just above the ground by tiny rigid silk poles Stemming from the author's more than five decades observing spider webs this book will be the definitive reference for years to come **Contributions of Behavior and Physiology to** Conservation Biology Susan C. Walls, Caitlin R. Gabor, 2020-03-30 Copeia ,1990 Associations' Publications in **Print**, 1981 1981 in 2 v v 1 Subject index v 2 Title index Publisher title index Association name index Acronym index Key to publishers and distributors abbreviations Biological Abstracts ,1948 The Software Encyclopedia 2000 Bowker Editorial Staff,2000-05 Paperbound Books in Print .1982 New Scientist .1994 Children's Books in Print R R

Bowker Publishing, Bowker, 1999-12 **Exploring Osaka** David M. Dunfield, 1993 A comprehensive English language guide to the city of Osaka for business travellers and tourists alike Second only to Tokyo as a banking and trade centre of Japan Osaka is a centre of tradition and culture as well the home of bunraku puppet theatre for example and is minutes by rail from Japan s ancient capitals of Kyoto and Nara A variety of suggested sightseeing itineries are included as well as recommended museums restaurants and hotels a list of festival dates and sources of additional information *Australian Books in Print*, 1987 <u>Lizards</u> Eric R. Pianka, Laurie J. Vitt, 2003-09-24 This book provides an overview of the diversity of lizards and their major adaptive features The authors discuss the latest research findings and provide new hypotheses about lizard diversity

Lizards in an Evolutionary Tree Jonathan Losos, 2009-08-15 Adaptive radiation which results when a single ancestral species gives rise to many descendants each adapted to a different part of the environment is possibly the single most important source of biological diversity in the living world One of the best studied examples involves Caribbean Anolis lizards With about 400 species Anolis has played an important role in the development of ecological theory and has become a model system exemplifying the integration of ecological evolutionary and behavioral studies to understand evolutionary diversification This major work written by one of the best known investigators of Anolis reviews and synthesizes an immense literature Jonathan B Losos illustrates how different scientific approaches to the questions of adaptation and diversification can be integrated and examines evolutionary and ecological guestions of interest to a broad range of biologists 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 hydroregulatory 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

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