

Chapter 32 An Introduction to Animal Diversity

1. What is an animal?
2. How did animals evolve?
3. How are animals grouped & characterized?

- Body plans

- Symmetry

- None (sponge)

- Radial

- multiple central axis "cuts" provide mirror images

- Only have top & bottom

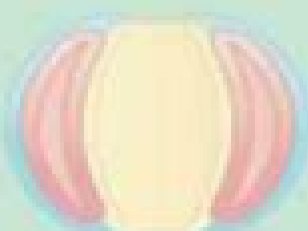
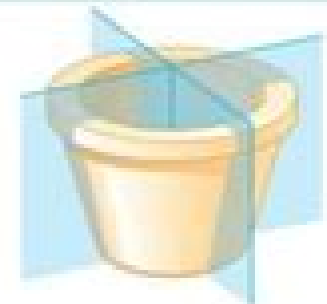
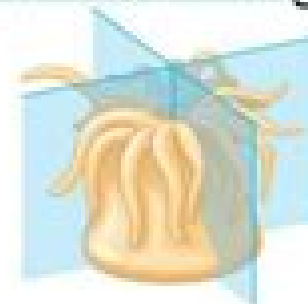
- Bilateral

- Only 1 central axis "cut" provides a mirror image

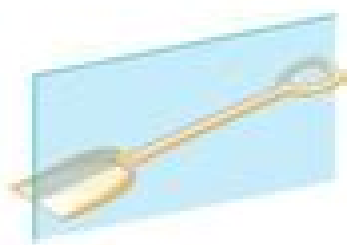
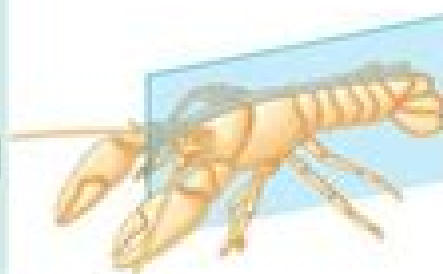
- Has top, bottom, left & right



Radial



Bilateral



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Milton Fingerman



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Invasive Birds Colleen T. Downs, Lorinda A. Hart, 2020-12-07 Examining globally invasive alien birds the first part of this book provides an account of 32 global avian invasive species as listed by the Invasive Species Specialist Group ISSG It acts as a one stop reference volume it assesses current invasive status for each bird species including details of physical description diet introduction and invasion pathways breeding behaviour natural habitat It also looks at the environmental impact of each species as well as current and future control methods Full colour photographs assist with species identification and global distribution maps give a visual representation of the current known distributions of these species The second part of the book discusses the biogeographical aspects of avian invasions highlighting current and emerging invasive species across different regions of the world The third section considers the impact of invasive species on native communities problems associated with invasive bird management and the use of citizen science in the study of invasive birds [Introduction to Animal](#)

[Diversity](#) The Open The Open Courses Library, 2019-11-15 Introduction to Animal Diversity Biology Animal evolution began in the ocean over 600 million years ago with tiny creatures that probably do not resemble any living organism today Since then animals have evolved into a highly diverse kingdom Although over one million extant currently living species of animals have been identified scientists are continually discovering more species as they explore ecosystems around the world The number of extant species is estimated to be between 3 and 30 million But what is an animal While we can easily identify dogs birds fish spiders and worms as animals other organisms such as corals and sponges are not as easy to classify Animals vary in complexity from sea sponges to crickets to chimpanzees and scientists are faced with the difficult task of classifying them within a unified system They must identify traits that are common to all animals as well as traits that can be used to distinguish among related groups of animals The animal classification system characterizes animals based on their anatomy morphology evolutionary history features of embryological development and genetic makeup This classification scheme is constantly developing as new information about species arises Understanding and classifying the great variety of living species help us better understand how to conserve the diversity of life on earth Chapter Outline Features of the Animal Kingdom Features Used to Classify Animals Animal Phylogeny The Evolutionary History of the Animal Kingdom The Open Courses Library introduces you to the best Open Source Courses [Introduction to Animal Diversity](#) Pearson Custom Publishing, 1994-01-01 **Animal Diversity** Cleveland P. Hickman, 2009 This edition presents a survey of the animal kingdom with emphasis on diversity evolutionary relationships functional adaptations and environmental interactions

Animal Diversity Cleveland P. Hickman (Jr.), 2018 This text provides a concise introduction to the field of animal biology Readers discover general principles of evolution ecology animal bodyplans and classification and systematics After these introductory chapters readers delve into the biology of all groups of animals The basic features of each group are discussed along with evolutionary relationships among group members Chapter highlights include newly discovered features of animals

as they relate to ecology conservation biology and value to human society Regular updates to the phylogenies within the book keep it current

Animal Diversity Diana R. Kershaw, 2012-12-06 This book has been written with two main purposes in mind page At the same time animals show immense variation the first being to give a general review of the entire animal and none is truly typical Some idea of the immense variety kingdom and the second to give more detailed functional of animals is given in the diversity sections with a synopsis accounts of the anatomy of a representative of each major of the classification of each major phylum animal group It is intended to be used by those who are Zoology has a language of its own which appears highly interested in animals and does not start with the assumption complicated but in most cases can in fact be derived simply of any great zoological knowledge It is hoped that it will from either Latin or Greek Translations and derivations prove particularly helpful to those studying biology or have been given of a selection of zoological terms these zoology at A level or in the early stages of a university should be regarded as examples The interested zoologist course may find the use of a Greek and Latin dictionary rewarding

Glencoe Science McGraw-Hill Staff, 2001-09-01

Animal Diversity Hickman, Jr. (Cleveland), 2011 This text provides a concise introduction to the field of animal biology Readers discover general principles of evolution ecology classification systematics and animal body plans After these introductory chapters readers delve into the biology of all groups of animals The basic features of each group are discussed along with evolutionary relationships among group members Chapter highlights include newly discovered features of animals as they relate to ecology conservation biology and value to human society Regular updates to the phylogenies within the book keep it current

Looseleaf for Animal Diversity Cleveland P. Hickman, Jr. Emeritus, Susan L. Keen, Allan Larson, Larry S. Roberts, David J. Eisenhour, Professor PhD, 2015-01-26 This text provides a concise introduction to the field of animal biology Readers discover general principles of evolution ecology classification systematics and animal body plans After these introductory chapters readers delve into the biology of all groups of animals The basic features of each group are discussed along with evolutionary relationships among group members Chapter highlights include newly discovered features of animals as they relate to ecology conservation biology and value to human society Regular updates to the phylogenies within the book keep it current

Animal Diversity Hickman, 2014-12-16

Animal Diversity Milton Fingerman, 1976

Animal Diversity, 2007

Loose Leaf for Animal Diversity David J. Eisenhour, Professor PhD, Cleveland P. Hickman, Jr. Emeritus, Allan Larson, Larry S. Roberts, Susan L. Keen, 2017-12-27 This text provides a concise introduction to the field of animal biology Readers discover general principles of evolution ecology classification systematics and animal body plans After these introductory chapters readers delve into the biology of all groups of animals The basic features of each group are discussed along with evolutionary relationships among group members Chapter highlights include newly discovered features of animals as they relate to ecology conservation biology and value to human society Regular updates to the phylogenies within the book keep it current

Animal Diversity Hickman, 1995-01-01

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