

Name: _____

Mudpuppy Internal Dissection

The mudpuppy's mouth is large and bounded by lips. The **lidless** eyes are small, as are the widely separated nares, which communicate with the oral cavity (see below). A short neck is present between the head and the long trunk. Notice the lack of tympanic membranes since mudpuppies are found in an aquatic environment and rarely make noise, there is no need for a well developed ear (tympanic membrane) like in frogs and toads. They are more similar to fish and use a lateral line for detecting changes. A **lateral line system** is present, but is not obvious as in fish.

Posteriorly, the large, flattened tail bears a small, marginal fin, which, however, lacks the supporting rays present in fishes.

Paired pectoral and pelvic limbs are small, but bear the three segments typical of terrestrial tetrapods. The cloaca, marking the posterior end of the trunk, lies ventrally between the pelvic limbs. **In males the cloacal aperture is surrounded by small projections or papillae.** The region around the cloaca is swollen due to the presence of the cloacal gland in mature males. Lastly, note the smooth, scaleless skin, which has an important respiratory function.



Once you have successfully located all that was required below and you are comfortable with identifying these organs if asked or quizzed...on Wednesday, you may explore further – some ideas...

- *Brain cavity*
- *Eyes – do they have the same “red” hard ball that makes up the eyes like frogs?*
- *How gills connect to the heart*
- *Anything else you would like to explore...*
- *If your stomachs seem “full” cut it open...*

Mudpuppy Dissection Guide

**Norman K. Wessels, Elizabeth M.
Center**



Mudpuppy Dissection Guide:

Atlas and Dissection Guide for Comparative Anatomy Saul Wischnitzer, 2006-02-13 Ideal for undergraduate comparative anatomy courses this classic manual combines comprehensive illustrations text and a clear readable design Organisms include protochordates lamprey dogfish shark mud puppy and cat

The Dissection of Vertebrates Gerardo De Iuliis, Dino Pulerà, 2006-08-03 The Dissection of Vertebrates covers several vertebrates commonly used in providing a transitional sequence in morphology With illustrations on seven vertebrates lamprey shark perch mudpuppy frog cat pigeon this is the first book of its kind to include high quality digitally rendered illustrations This book received the Award of Excellence in an Illustrated Medical Book from the Association of Medical Illustrators It is organized by individual organism to facilitate classroom presentation This illustrated full color primary dissection manual is ideal for use by students or practitioners working with vertebrate anatomy This book is also recommended for researchers in vertebrate and functional morphology and comparative anatomy The result of this exceptional work offers the most comprehensive treatment than has ever before been available Received the Award of Excellence in an Illustrated Medical Book from the Association of Medical Illustrators Expertly rendered award winning illustrations accompany the detailed clear dissection direction Organized by individual organism to facilitate classroom presentation Offers coverage of a wide range of vertebrates Full color strong pedagogical aids in a convenient lay flat presentation

Vertebrates Norman K. Wessels, Elizabeth M. Center, 1992-05

The Anatomy of Necturus Lionel J. Rosenzweig, 1988 Field & Laboratory, 1955 *Comparative Anatomy* Dale W. Fishbeck, Aurora Sebastiani, 2015-03-01 This full color manual is a unique guide for students conducting the comparative study of representative vertebrate animals It is appropriate for courses in comparative anatomy vertebrate zoology or any course in which the featured vertebrates are studied Field & Laboratory Graduate Research Center (Dallas, Tex.), 1953

A Course in Vertebrate Zoölogy Henry Sherring Pratt, 1905 **Comparative Vertebrate Anatomy: A Laboratory Dissection Guide** Kenneth Kardong, Edward Zalisko, 2009 This high quality laboratory manual may accompany any comparative anatomy text but correlates directly to Kardong's Vertebrates Comparative Anatomy Function Evolution text This lab manual carefully guides students through dissections and is richly illustrated First and foremost the basic animal architecture is presented in a clear and concise manner Throughout the dissections the authors pause strategically to bring the students attention to the significance of the material they have just covered **Journal** Graduate Research Center, Dallas, 1950 **Journal** Southern Methodist University. Graduate Research Center, 1954 An Ethnographic Study of the Interrelationship of Community College Teachers and Students in a Laboratory Setting Kay T. Dodge, 1982 Science Fair Project Index 1981-1984 Deborah Crowe, Akron-Summit County Public Library. Science and Technology Division, 1986 This second supplement to the Science Fair Project Index 1960 1972 includes science projects and experiments found in 135 books and five magazines published from 1981 through 1984 The index is intended for use by students in grades five through

high school and teachers who are involved in creating science fair projects Federation Proceedings Federation of American Societies for Experimental Biology, 1970-05 Often includes the proceedings of various member societies and the abstracts of papers submitted for presentation at the annual meeting of the Federation or at the meetings of its member societies Vertebrate Dissection Warren Franklin Walker, 1954 *Comparative Vertebrate Anatomy* Kenneth V. Kardong, Edward J. Zalisko, 2002 This laboratory manual may accompany any comparative anatomy text It carefully guides students through dissection and is richly illustrated Topics include protochordates vertebrate integuments skeletal system digestive systems and muscular systems and external anatomy **Journal**, 1980 The American Biology Teacher, 2003
The Science Teacher, 1978 Some issues are accompanied by a CD ROM on a selected topic **AIBS Bulletin**, 1959

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Table of Contents Mudpuppy Dissection Guide

1. Understanding the eBook Mudpuppy Dissection Guide
 - The Rise of Digital Reading Mudpuppy Dissection Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Mudpuppy Dissection Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mudpuppy Dissection Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mudpuppy Dissection Guide
 - Personalized Recommendations
 - Mudpuppy Dissection Guide User Reviews and Ratings
 - Mudpuppy Dissection Guide and Bestseller Lists
5. Accessing Mudpuppy Dissection Guide Free and Paid eBooks
 - Mudpuppy Dissection Guide Public Domain eBooks
 - Mudpuppy Dissection Guide eBook Subscription Services
 - Mudpuppy Dissection Guide Budget-Friendly Options
6. Navigating Mudpuppy Dissection Guide eBook Formats

- ePub, PDF, MOBI, and More
- Mudpuppy Dissection Guide Compatibility with Devices
- Mudpuppy Dissection Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mudpuppy Dissection Guide
 - Highlighting and Note-Taking Mudpuppy Dissection Guide
 - Interactive Elements Mudpuppy Dissection Guide
- 8. Staying Engaged with Mudpuppy Dissection Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mudpuppy Dissection Guide
- 9. Balancing eBooks and Physical Books Mudpuppy Dissection Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mudpuppy Dissection Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mudpuppy Dissection Guide
 - Setting Reading Goals Mudpuppy Dissection Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mudpuppy Dissection Guide
 - Fact-Checking eBook Content of Mudpuppy Dissection Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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