

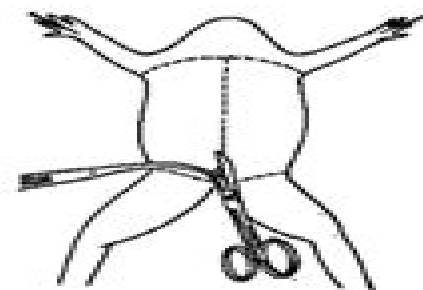
Student Guide to the Frog Dissection

Dissection Instructions

1. Place the frog in the dissecting pan ventral side up.
2. Use scissors to lift the abdominal muscles away from the body cavity. Cut along the midline of the body from the pelvic to the pectoral girdle.
3. Make transverse (horizontal) cuts near the arms and legs.
4. Lift the flaps of the body wall and pin back.

*If your specimen is a female, the body may be filled with eggs and an enlarged ovary. You may need to remove these eggs to view the organs.

Locate each of the organs below. Check the box to indicate that you found the organs.



1. **Fat Bodies** --Spaghetti shaped structures that have a bright orange or yellow color, if you have a particularly fat frog, these fat bodies may need to be removed to see the other structures. Usually they are located just on the inside of the abdominal wall. ☐
2. **Peritoneum** A spider web like membrane that covers many of the organs, you may have to carefully pick it off to get a clear view ☐
3. **Liver**--The largest structure of the the body cavity. This brown colored organ is composed of three parts, or lobes. The **right lobe**, the **left anterior lobe**, and the **left posterior lobe**. The liver is not primarily an organ of digestion, it does secrete a digestive juice called bile. Bile is needed for the proper digestion of fats. ☐
4. **Heart** - at the top of the liver, the heart is a triangular structure. The **left and right atrium** can be found at the top of the heart. A single **ventricle** located at the bottom of the heart. The large vessel extending out from the heart is the **conus arteriosis**. ☐
5. **Lungs** - Locate the lungs by looking underneath and behind the heart and liver. They are two spongy organs. ☐
6. **Gall Bladder** --Lift the lobes of the liver, there will be a small green sac under the liver. This is the gall bladder, which stores bile, (hint: it kind of looks like a booger) ☐
7. **Stomach**--Curving from underneath the liver is the stomach. The stomach is the first major site of chemical digestion. Frogs swallow their meals whole. Follow the stomach to where it turns into the small intestine. The **pyloric sphincter valve** regulates the exit of digested food from the stomach to the small intestine. ☐
8. **Small Intestine**--Leading from the stomach. The first straight portion of the small intestine is called the **duodenum**, the curled portion is the **ileum**. The ileum is held together by a membrane called the **mesentery**. Note the blood vessels running through the mesentery, they will carry absorbed nutrients away from the intestine. Absorption of digested nutrients occurs in the small intestine. ☐
9. **Large Intestine**--As you follow the small intestine down, it will widen into the large intestine. The large intestine is also known as the **cloaca** in the frog. The cloaca is the last stop before wastes, sperm, or urine exit the frog's body. (The word "cloaca" means sewer) ☐
10. **Spleen**--Return to the folds of the mesentery, this dark red spherical object serves as a holding area for blood. ☐
11. **Esophagus**--Return to the stomach and follow it upward, where it gets smaller is the beginning of the esophagus. The esophagus is the tube that leads from the frogs mouth to the stomach. Open the frogs mouth and find the esophagus, poke your probe into it and see where it leads. ☐

STOP! If you have not located each of the organs above, do not continue on to the next sections!

Frog Dissection Laboratory Answers

Lauren Gardner



Frog Dissection Laboratory Answers:

Exploring Biology in the Laboratory: Core Concepts Murray P. Pendarvis, John L. Crawley, 2019-02-01 Exploring Biology in the Laboratory Core Concepts is a comprehensive manual appropriate for introductory biology lab courses This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired Based on the two semester version of Exploring Biology in the Laboratory 3e this Core Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in and continue to act on the diversity that we see around us today

Laboratory Directions for General Biology; the Frog. Zoological Half (second Semester) University of Michigan, 1910 **Teacher's Guide for Biology: Laboratory Manual** Stanley L. Weinberg, 1977 The Animal Experimentation Debate David E. Newton, 2013-05-09 Reviewing the topic from antiquity to the present day this book examines the debate over the use of animals in research in a fair and balanced way The debate over the use of nonhuman animals in experimental research has gone on for centuries and it continues as vigorously today as it ever has In fact in the last decade the controversy has intensified making animal testing a topic at the highest level of debate of any socioscientific issue in the United States This book presents all sides of the issue so that readers can come to their own conclusions as to the morality and validity of animal experimentation and provides biographies of individuals and descriptions of organizations that have been involved in the debate over the centuries Additionally it documents the historical shift in thinking that made animal experimentation commonplace between the time of the ancient Greeks and the 19th century to the mindset of some who argue for an end to the practice and alternative ways of conducting medical experimentation to benefit human health

Biology Christian Liberty Press, Robert Glotzhaber, 2005-05-11 Teacher's Guide to accompany Biology A Search for Order in Complexity This teacher's guide will equip instructors to lead their students through the various experiments that are featured in the student laboratory manual **Laboratory Guide in General Zoology** Frederick Hartzler Krecker, Wencel Jerome Kostir, 1925 **The Jungle School** Butet Manurung, 2012-02-24 A People in Crisis A Young Woman's Adventure A School for Life The Orang Rimba People of the Forest are nomadic tribes living in the rainforests of Sumatra Indonesia as hunter gatherers Today the outside world has arrived at their doorstep From illegal loggers chain sawing the jungle to government sponsored transmigrants working in palm oil plantations the outsiders are encroaching upon the rainforest While they have the skills needed to preserve their jungle the Orang Rimba are ill prepared to deal with land contracts or sale of rainforest products What can be done to help them Butet Manurung shares the journal she kept during her first year in the jungle She tells of her adventures with stinging bees prowling bears and motorbikes Most touchingly she describes how her relationship with the Orang Rimba develops as she transforms from an outsider to a trusted teacher within the community Her trials and errors are familiar to anyone who has ever been a teacher even though her students often wear

loincloths and trap animals for lunch Will learning to read and write be enough to help the Orang Rimba save their rainforest Butet tells the story of her journey from anthropologist to educator to activist She explains how and why she founded SOKOLA to bring literacy to indigenous people in areas too remote to access education The work of this foundation and its adventurous volunteers is an excellent example of how a small number of individuals can effect change The Jungle School is now a film Directed by Riri Riza Praise for The Jungle School The traditional wisdom of the indigenous people of Indonesia is a truth that we must preserve At the same time the dilemma between introducing modernity development and education while protecting their traditional way of life is another truth I greatly appreciate the contribution and dedication of people like Butet Manurung who provide true insights into the Orang Rimba The Jungle School speaks volumes from actual experience recorded not only in an anthropological way but also in a very human and personal way This is a book that not only makes us realize that traditional wisdom and jungles need to be preserved but also warms the heart Mari Pangestu Indonesias Minister of Tourism The Jungle School puts a human face on the results of logging and deforestation practices that directly threaten the existence of the Orang Rimba Although the rights of the often forgotten Rimba people are protected by our laws their aspirations are sometimes ignored in the management of rainforests and their resources Education for the Rimba is truly a gift for life Butets story will change the hearts and minds of those who think otherwise Agus Purnomo Special Staff to the President of the Republic of Indonesia for Climate Change The Jungle School comes at a critical moment in the development of the present civilization It combats all the theoretical complexity of educational developments to smooth the process from literate society to knowledge society welfare society to cultured and civilized society Butet Manurung shows that the impossible is possible by touching the hearts and minds of the Orang Rimba by reaching the unreachable soul of an indigenous community by helping us to understand what it means to be human She inspires readers and takes them on a journey of educational adventure that highlights best practices which can also be applied in any metropolitan jungle that needs intellectual perseverance Butet shows her intellectual courage integrity and her sacrifices to become a hero of education She exercises the intellectual virtues that we all need today to have a healthy mind set in the pursuit of human rights and dignity It is in the minds of men that the defense of peace must be constructed UNESCO Constitution Arief Rachman Professor The Resilience Workbook for Teens Cheryl M. Bradshaw, 2019-05-01 It is time to realize your full potential In The Resilience Workbook for Teens you ll learn to bounce back from setbacks develop grit and a growth mindset and overcome any obstacle that comes your way Social media online ads and glossy magazines make it look easy to be a teen everyone seems to be laughing sun kissed beautiful surrounded by friends and wearing the perfect clothes But if you re like most teens and young adults reality doesnt look like a magazine ad lifestyle blog or Instagram feed You may struggle with not fitting in or being bullied You may feel overwhelmed by stress experience a significant setback or lose a parent or loved one That s why it s so important to build resilience the cornerstone of mental

health and wellness This workbook will show you how In The Resilience Workbook for Teens author psychotherapist and youth mentor Cheryl M Bradshaw will show you that the key to building resilience lies in your relationship with yourself Through activities and interactive exercises you ll learn to balance your emotions rewrite the negative stories you tell yourself embrace who you are and believe in your own power to bounce back from life s biggest challenges The teen years are a critical time to learn the skills of resilience and to develop positive strategies for coping with stress and mental health challenges Let this fun and friendly workbook guide you as you build your own resilience It s a gift you ll take with you beyond high school and well into adulthood Biology ,1999 Lecture-free Teaching Bonnie S. Wood,2009

Frog Dissection Laboratory Answers Book Review: Unveiling the Power of Words

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Table of Contents Frog Dissection Laboratory Answers

1. Understanding the eBook Frog Dissection Laboratory Answers
 - The Rise of Digital Reading Frog Dissection Laboratory Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Frog Dissection Laboratory Answers
 - 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 Frog Dissection Laboratory Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Frog Dissection Laboratory Answers
 - Personalized Recommendations
 - Frog Dissection Laboratory Answers User Reviews and Ratings
 - Frog Dissection Laboratory Answers and Bestseller Lists

5. Accessing Frog Dissection Laboratory Answers Free and Paid eBooks
 - Frog Dissection Laboratory Answers Public Domain eBooks
 - Frog Dissection Laboratory Answers eBook Subscription Services
 - Frog Dissection Laboratory Answers Budget-Friendly Options
6. Navigating Frog Dissection Laboratory Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Frog Dissection Laboratory Answers Compatibility with Devices
 - Frog Dissection Laboratory Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Frog Dissection Laboratory Answers
 - Highlighting and Note-Taking Frog Dissection Laboratory Answers
 - Interactive Elements Frog Dissection Laboratory Answers
8. Staying Engaged with Frog Dissection Laboratory Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Frog Dissection Laboratory Answers
9. Balancing eBooks and Physical Books Frog Dissection Laboratory Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Frog Dissection Laboratory Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Frog Dissection Laboratory Answers
 - Setting Reading Goals Frog Dissection Laboratory Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Frog Dissection Laboratory Answers
 - Fact-Checking eBook Content of Frog Dissection Laboratory Answers
 - 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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