

# Student Guide to the Frog Dissection

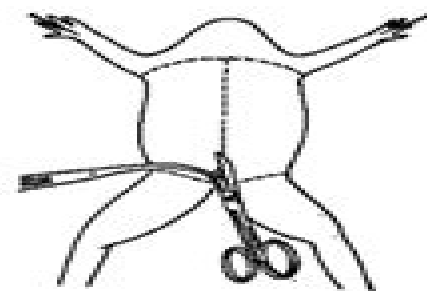
## Dissection Instructions

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

**Xiaopeng Zhang**



## **Frog Dissection Laboratory Answers:**

*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      **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      **Lecture-free Teaching**

Bonnie S. Wood, 2009      **Laboratory Guide in General Zoology** Frederick Hartzler Kreckler, Wencil 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 American Biology Teacher ,2002 **The Well-Trained Mind** Susan Wise Bauer, Jessie Wise, 2009-05-04 If you re a parent who has decided to educate your children yourself this book is the first you should buy Washington Times The Well Trained Mind will instruct you step by step on how to give your child an academically rigorous comprehensive education from preschool through high school one that will train him or her to read to think to understand to be well rounded and curious about learning Veteran home educators Jessie Wise and Susan Wise Bauer outline the classical pattern of education called the trivium which organizes learning around the maturing capacity of the child s mind and comprises three stages the elementary school grammar stage the middle school logic stage and the high school rhetoric stage Using this theory as your model you ll be able to instruct your child in all levels of reading writing history geography mathematics science foreign languages rhetoric logic art and music regardless of your own aptitude in those subjects This newly revised edition contains completely updated ordering information for all curricula and books new and expanded curricula recommendations new material on using computers and distance learning resources answers to common questions about home education information about educational support groups and advice on practical matters such as working with your local school board preparing a high school transcript and applying to colleges **Biology Inquiries** Martin Shields, 2005-10-07 Biology Inquiries offers educators a handbook for teaching middle and high school students engaging lessons in the life sciences Inspired by the National Science Education Standards the book bridges the gap between theory and practice With exciting twists on standard biology instruction the author emphasizes active inquiry instead of rote memorization Biology Inquiries contains many innovative ideas developed by biology teacher Martin Shields This dynamic resource helps teachers introduce standards based inquiry and constructivist lessons into their classrooms Some of the book s classroom tested lessons are

inquiry modifications of traditional cookbook labs that biology teachers will recognize Biology Inquiries provides a pool of active learning lessons to choose from with valuable tips on how to implement them *Biology*, 1999 **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

**Frogs** Mike Dorcas, Whit Gibbons, 2011-05-02 Frogs are amazingly diverse ranging from the massive goliath frog which weighs several pounds to the recently discovered gold frog which measures a mere three eighths of an inch when fully grown and have inhabited the earth for more than 200 million years Today however these amphibians face more challenges than any other vertebrate group In this fun and informative book herpetologists Mike Dorcas and Whit Gibbons answer common and not so common questions people may have about these fascinating animals Dorcas and Gibbons discuss how frogs evolved which species currently exist in the world and why some have recently gone extinct They reveal what frogs eat and what eats them their role in cultures across the globe why many populations are declining and what we can do to reverse this dangerous trend why there are deformed frogs and much more They answer expected questions such as What is the difference between a frog and a toad and Why do some people lick toads and unexpected ones such as Why do some frogs lay their eggs in the leaves of trees and Do frogs feel pain The authors easy to understand yet thorough explanations provide insight into the amazing biology of this amphibian group In addressing conservation questions Dorcas and Gibbons highlight the frightening implications of the current worldwide amphibian crisis which many scientists predict will bring extinction rates experienced by frog species to levels not seen in any vertebrate animal group in millions of years Packed with facts and featuring two color galleries and 70 black and white photographs Frogs The Animal Answer Guide is sure to address the questions on the minds of curious naturalists *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 **Chapter Resource 33 Fishes and Amphibians Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Apps for Learning** Harry J. Dickens, Andrew Churches, 2011-10-20 Provides detailed descriptions of forty apps that can be used in high school

classrooms

**The Importance of Average** Stephen Farenaga,2010-03-16 The Importance of Average calls attention to the policies and practices that discriminate against the silent majority of students in the American educational system Arguments presented emphasize the collateral damage caused to average students by legislative mandates administrative policies teaching practices parenting beliefs and adherence to strict psychological constructs Each of these factors has created a pervasive psycho educational belief of average ability The authors challenge what they consider as a pseudo definition of average that was brought about as an attempt by policymakers to test their way out of addressing the true inequities found in society Further the authors identify how educational policymakers have sacrificed the education of an entire class of students by creating the illusion that underachievement can be eliminated simply through lowering standards and examination pass rates In chronicling the plight of average students the authors capture the emotions and attitudes of teachers parents and students whose frustrations have been set aside in order to meet other special interests The authors explore methods that provide students of average knowledge in any given area with the appropriate tools necessary for succeeding in school Finally the authors argue that there is no such thing as average intelligence

What are the Needs in Precollege Science, Mathematics, and Social Science Education? ,1980

**What are the Needs in Precollege Science, Mathematics, and Social Science Education?** National Science Foundation (U.S.). Directorate for Science Education. Office of Program Integration,1980

**Transactions on Edutainment IV** Xiaopeng Zhang,2010-08-28 E learning and digital entertainment techniques tools and systems are becoming popular and can be found in many real world educational applications in many countries The driving force behind these technologies is the rapidly growing requirements of edutainment especially from the perspective of the users This has led to the increasing interest of researchers in this area The articles in this issue give a rich overview of how edutainment technologies can be creatively used for training and education purposes The first 12 articles of this issue represent a selection of outstanding contributions from Edutainment 2010 the 5th International Conference on E learning and Games held in Changchun China in August 2010 The main purpose of this event is to facilitate the discussion presentation and information exchange on the scientific and technological developments in the emerging field of digital entertainment techniques and systems for education These 12 papers concentrated on three aspects e learning system and applications game techniques for learning and virtual reality techniques for entertainment They are closely related to the topics of this journal

The Resilience Workbook for Teens Cheryl M. Bradshaw,2019-05-01 It's 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 doesn't 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

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