

Frog Dissection - Dissection Instructions

Before you begin dissecting your frog, locate the following external parts of the frog and the internal mouth parts

Figure 1: Frog external features

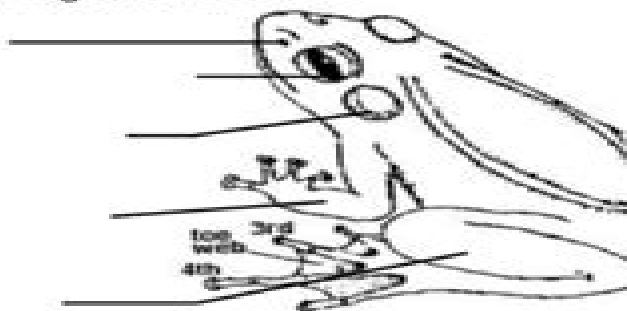
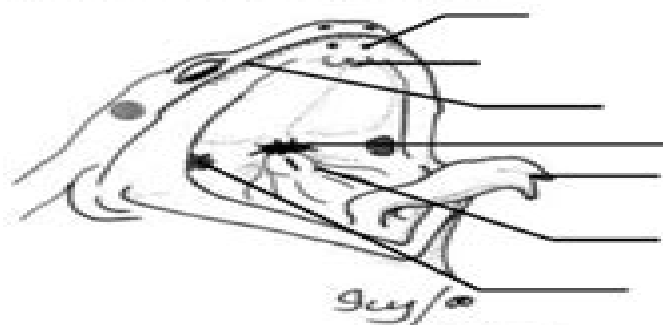
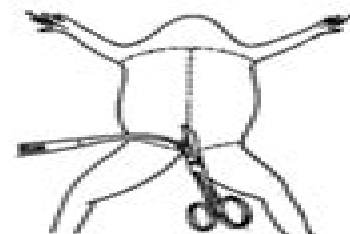


Figure 2: Frog mouth interior



Place the frog in the dissecting pan ventral (stomach) side up.

- 1) Use the tweezers to lift the skin away from the body cavity. Using the scissors cut along the midline of the body from the pelvic to the pectoral girdle. (see diagram)
- 2) Make transverse (horizontal) cuts near the arms and legs.
- 3) Lift the flaps of skin and pin back onto the dissecting tray
- 4) Repeat steps 1-3 for the abdominal muscles of the frog.



***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.

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.

☐

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

☐

Liver--The largest structure of the body cavity. This brown coloured organ is composed of three parts, or lobes. 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.

☐

Heart - at the top of the liver, the heart is a triangular structure.

☐

Lungs - Locate the lungs by looking underneath and behind the heart and liver. They are two spongy organs and appear as deflated (brownish) membranes on either side of the chest.

☐

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.

☐

Stomach--Curving from underneath the liver is the stomach (usually pale yellow in colour). 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.

☐

Frog Dissection Step By Step Guide

Andreas Kitzmann



Frog Dissection Step By Step Guide:

Frog Dissection Manual Bruce D. Wingerd, 1988 Illustrations and easy to follow instructions demonstrate how to properly dissect a frog and identify its anatomical structures *The Complete Idiot's Guide to Science Fair Projects* Nancy K. O'Leary, Susan Shelly, 2003-12-02 Includes 50 project ideas Offering one stop shopping for all readers science fair needs including 50 projects covering all science disciplines and rated from beginner through advanced this book takes students and parents through the entire scientific method The Complete Idiot's Guide to Science Fair Projects offers a variety of experiments with the right chemistry for you In this Complete Idiot's Guide you get An explanation of the scientific method and the step by step procedure of applying it to your project More than 50 projects to choose from in the biological chemical botanical physical and earth sciences Tips on displaying your findings through the creation of graphs tables and charts An understanding of exactly what the judges look for in a winning project and paper *Biology*, 1999 [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 [Integrate the Internet Across the Content Areas](#) Lynn Van Gorp, 2007-07-01 Bring your classroom into the 21st century using the Internet Useful strategies An annotated list of teacher tested websites and easy to follow lesson plans for all content areas make this resource a perfect guide for integrating the Internet into the curriculum Student activities student research suggestions and 24 model lessons that clearly demonstrate how to effectively use websites are provided along with information on teacher and student resource sites The open ended activities help students develop thinking skills and learn to search the Web and evaluate websites Topics covered include computer management differentiation safety issues searching the Internet copyright guidelines and more The Teacher Resource CD provided includes reproducible teacher resource materials 296pp [Christian Home Educators' Curriculum Manual](#) Cathy Duffy, 1995-07 Cathy Duffy draws upon her many years of home education experience both in teaching and researching curriculum to bring us the most thorough and useful book available on teaching teenagers at home [32 Quick & Fun Content Area Computer Activities](#) Lynn Van Gorp, 2006 Incite Grades 6-8 students enthusiasm to learn using technology in the curriculum You'll enhance learning and encourage high order thinking by incorporating a technology project for every week of the school year Students will develop key technology skills in word processing spreadsheets multimedia presentations and using the Internet while you teach regular classroom content Lessons are divided among content areas and the flexible projects are great for computer centers labs or one computer classrooms The easy to follow teacher instructions and step by step student directions make this resource a hit in the classroom The included Teacher Resource CD contains sample projects templates and assessment rubrics 160pp [3D Printing](#) Sara Russell Gonzalez, Denise Beaubien Bennett, 2016-05-08 Planning and implementing a 3D printing service in a library may seem like a daunting task Based upon the authors experience as early adopters of 3D technology and running a successful 3D printing service at a large academic library this guide provides the

steps to follow when launching a service in any type of library Detailed guidance and over 50 graphics provide readers with sage guidance and detailed instructions on planning a proposal printer selection tips preparing the location addressing staff concerns for new service developing service workflows and procedures managing inevitable disasters developing policies conducting the reference interview for 3D printing staff training tips outreach activities This book brings into one place all the guidance you need for developing and implementing a 3D printing service in any library *Hypertext Handbook* Andreas Kitzmann, 2006 *Hypertext Handbook* provides a condensed and straightforward introduction to the main issues concepts and developments in both the application of hypertext technology and its interpretation by the academic community It offers a concise history of the medium in a manner that will help readers to better understand contemporary directions in digital media technology *Hypertext Handbook* provides a comprehensive guide to this complex concept and is designed to inform and inspire students and scholars alike **The Frog; a Practical Guide** Thomas Arthur Goodwill Wells, 1968 Must-See Websites for Busy Teachers (Must-See Websites) , **Biology/science Materials** Carolina Biological Supply Company, 1991 Must-see Websites for Parents & Kids Lynn Van Gorp, 2007-10-15 Collects websites that are family friendly and may be useful for homework with suggestions regarding navigation and possibly useful tools **The Software Encyclopedia 2001** , 2001 The Complete Home Learning Sourcebook Rebecca Rupp, 1998 Lists all the resources needed to create a balanced curriculum for homeschooling from preschool to high school level Atlas of Animal Anatomy and Histology Péter Lőw, Kinga Molnár, György Kriska, 2016-05-03 This atlas presents the basic concepts and principles of functional animal anatomy and histology thereby furthering our understanding of evolutionary concepts and adaptation to the environment It provides a step by step dissection guide with numerous colour photographs of the animals featured It also presents images of the major organs along with histological sections of those organs A wide range of interactive tutorials gives readers the opportunity to evaluate their understanding of the basic anatomy and histology of the organs of the animals presented **You Are Here Kids and Family Internet Guide** Eric Leebow, 2001-10 *The Latest and Best of TESS* , 1991 *Library of Congress Catalog: Motion Pictures and Filmstrips* Library of Congress, 1968 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

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