# Frog Lab

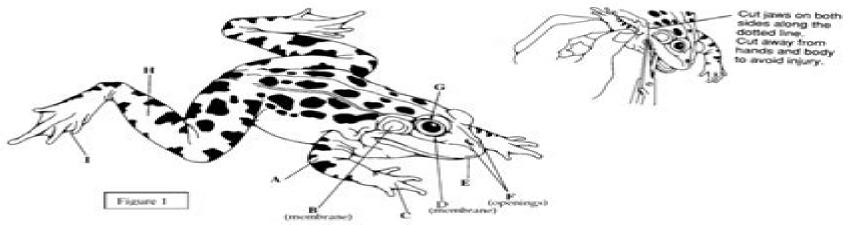
- Purpose: Locate and identify the various structures of the frog's major systems and relate the internal structures of the frog to their respective functions.
- Background: None
- Variables: Different frogs
- Materials: Preserved frogs, scalpels (WARNING: scalpels are sharp and dangerous, handle with care), scissors, forceps, dissecting trays, probes, plastic bags and dissecting pins.

#### Procedures:

#### Part 1 "External Structures, the Mouth and the Brain"

#### External Structures & the Mouth

- Obtain a preserved frog and a plastic bag from your instructor. Put your group's surgeon's name, and the period # on the plastic bag. Place your frog on its ventral side (stomach) down on the dissecting tray.
- Identify the dorsal, ventral, anterior and posterior regions of the frog and answer question 1 from data and results section.
- Locate the forelegs and the hind legs. Examine the hands of the frog. If the hands have enlarged thumbs, the frog is a male. Answer questions 2-4.
- Locate the two large, protruding eyes. Lift the outer, upper cyclid using a probe. Beneath the upper lid is an
  inner lid, attached to lower eye called the nictitating membrane. Answer question 5.
- Posterior to each eye is a circular region of tightly stretched skin. This region is the tympanic membrane, or cardrum. Locate the tympanic membrane and answer question 6 and 7.
- Just behind the tip of the frog's head are two small openings called external nares or nostrils. Answer question 8 and 9.
- Besides answering questions in the data and result section you will also be required to correctly label several figures. In the data collection section of write-up label structures A-I from figure 1 below.
  - Figure 1: Anterior, posterior, dorsal, ventral, external nares, eye, nictitating membranes, tympanic membrane, forelimb, hand, hind limb, webbed foot, and mouth.



8. Pry open the mouth of your frog with your fingers and insert the scissors into the corner of the mouth.

# **Biology Frog Lab Study Guide Answers**

**Lingsheng Yao** 

# **Biology Frog Lab Study Guide Answers:**

Laboratory Guide for the Study of the Frog Bertram Garner Smith, 1917 Biology, 1998 **Life: The Science of** Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR Text-book of biology, for students in medical, technical and general courses William Martin Smallwood, 1913 Laboratory Guide for Elementary Course in General Biology John Henry Pillsbury, 1893 Laboratory Manual in Elementary Biology ... Emanuel Roth Boyer, 1894 E-biology Ii Tm (science and Technology) 2003 Ed., 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 The Regents Questions and Answers in Biology ,1922 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1977

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