

SNC2P Frog Dissection Lab

Garside: SNC2D

Name: _____

Purpose:

The purpose of the lab is to observe the internal structures (cells, tissues, organs and organ systems) of a frog's anatomy and to determine the function of those internal structures.

Hypothesis:

It was believed the experiment would prove or demonstrate the structure, function and interactions of frog organs and organ systems.

Materials:

Frog Dissection Laboratory Student Study Guide (Boreal Laboratories)

Key Terms and Pronunciation

nictitating (nick-tih-tay-ting)

eustachian (you-stay-kee-un)

glottis (glot-iss)

tympanum (tim-pan-num)

cloacal (kloh-a-kull)

nare

laryngotrachea (larr-in-joe-tray-key-ah)

Experimental Design: You will be dissecting a Leopard Frog – a very common frog to much of North America. Though frogs are much simpler than humans, they have all of the same organ systems that we do and their digestive system is arranged in a very similar manner to ours. During this lab activity you will be observing external features, mouth, digestive system, heart, lungs and respiratory system and reproductive system.

External Structures of the Frog

Part A: Head

1. The internal nares open into the:
 - a. mouth
 - b. cloaca
 - c. stomach
 - d. esophagus
2. The tympanum is the:
 - a. eyelid
 - b. eardrum
 - c. nostril
 - d. cloacal aperture
3. The nictitating membrane is an extension of the:
 - a. lower eyelid
 - b. upper eyelid
 - c. eardrum
 - d. tongue
4. The frog lacks _____ on its head.
 - a. external ears
 - b. nostrils
 - c. eyes
 - d. upper eyelids
5. Locate the frog's eyes. The nictitating membrane is a clear membrane that attached to the bottom of the eye. Use tweezers to carefully remove the nictitating membrane. You may also remove the eyeball.

- What color is the nictitating membrane? _____

- What color is the eyeball? _____

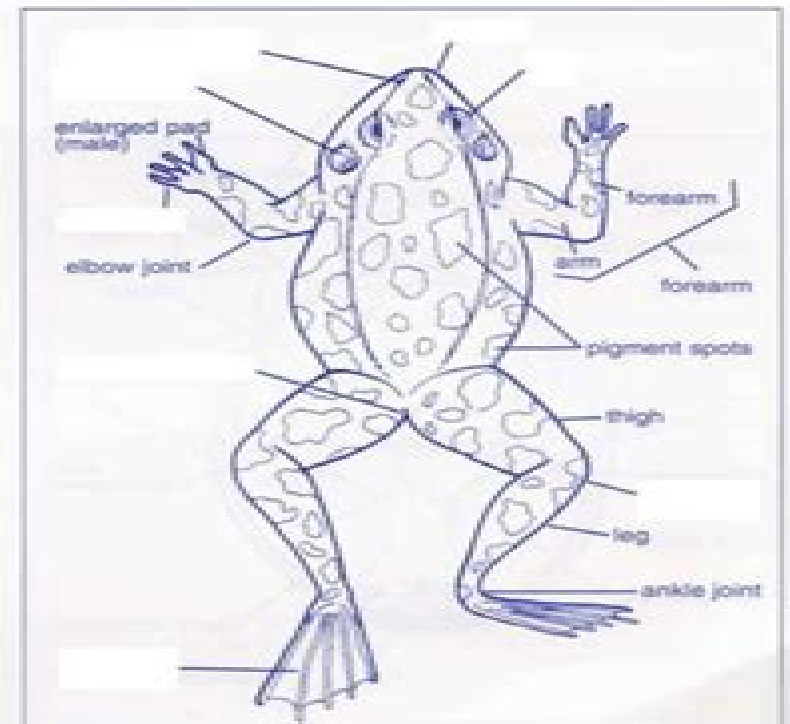


Figure 1: External Structure of the Frog

Questions For Frog Dissection Lab

Michael Hoelscher



Questions For Frog Dissection Lab:

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Chapter Resource 33 Fishes and Amphibians Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

Biology, 1999

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Lecture-free Teaching Bonnie S. Wood, 2009

The Animal Experimentation Debate David E. Newton, 2013-05-09 Reviewing the topic from antiquity to the present day this book

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Graduate Research in Urban Education and Related Disciplines ,1992

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web actually nowadays industry is doing much more in the field of environmental protection to comply with eu legislation and
maintain their reputation than citizens and most people are unaware of that i would encourage the petrochemical industry to
continue to develop new chemical feedstock and products that would help citizens become more