

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?

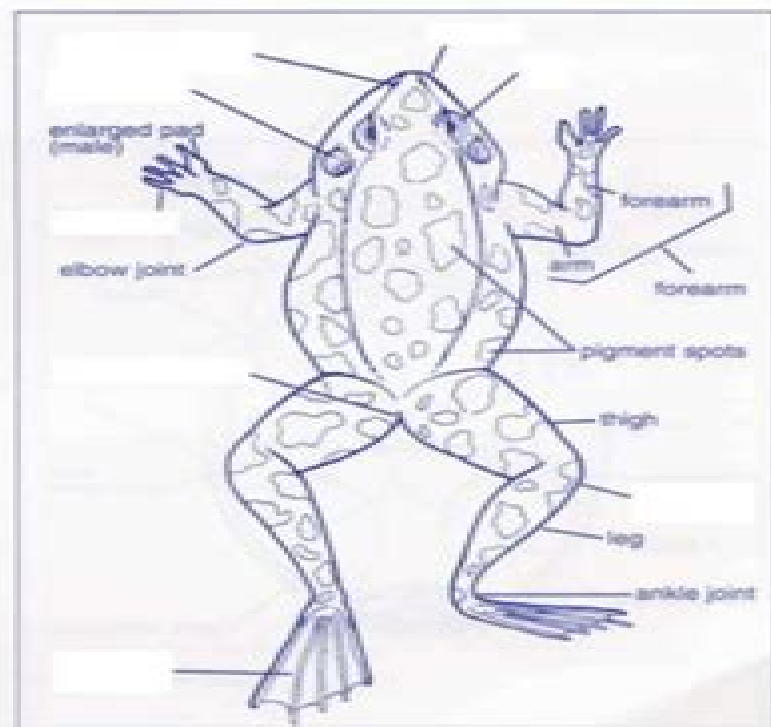


Figure 1: External Structure of the Frog

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LP Steffe



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