

Name: \_\_\_\_\_

## Frog Dissection: External Anatomy

1. Observe the dorsal and ventral sides of the frog. ☐

Dorsal side color \_\_\_\_\_ Ventral side color \_\_\_\_\_

2. Examine the hind legs. ☐

How many toes are present on each foot? \_\_\_\_\_

Are the toes webbed? \_\_\_\_\_

3. Examine the forelegs. ☐

How many toes are present? \_\_\_\_\_ Are the toes webbed? \_\_\_\_\_

4. Use a ruler to measure your frog, measure from the tip of the head to the end of the frog's backbone (do not include the legs in your measurement). Compare the length of your frog to other frogs.

Your Frog (cm)	Frog 2	Frog 3	Frog 4	Frog 5	Average Length

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? \_\_\_\_\_

6. Just behind the eyes on the frog's head is a circular structure called the tympanic membrane. The tympanic membrane is used for hearing. Measure the diameter (distance across the circle) of the tympanic membrane. ☐

Diameter of tympanic membrane \_\_\_\_\_ cm

7. Feel the frog's skin. ☐ Is it scaly or is it slimey? \_\_\_\_\_

### Anatomy of the Frog's Mouth

Procedure: Pry the frog's mouth open and use scissors to cut the angles of the frog's jaws open. Cut deeply enough so that the frog's mouth opens wide enough to view the structures inside. ☐

1. Locate the tongue. Play with the tongue. Does it attach to the front or the back of the mouth? \_\_\_\_\_ (You may remove the tongue). Draw a sketch of the tongue, paying attention to its shape. ☐

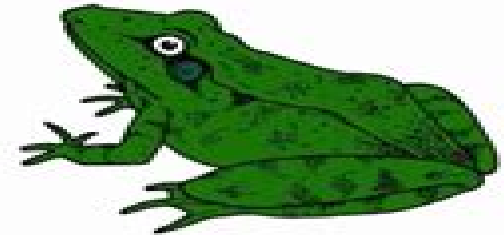
Tongue Sketch:

2. In the center of the mouth, toward the back is a single round opening. This is the esophagus. This tube leads to the stomach. Use a probe to poke into the esophagus. ☐

3. Close to the angles of the jaw are two openings, one on each side. These are the Eustachian tubes. They are used to equalize pressure in the inner ear while the frog is swimming. Insert a probe into the Eustachian tube. ☐

To what structure does the Eustachian tube attach? \_\_\_\_\_

4. Just behind the tongue, and before you reach the esophagus is a slit like opening. (You may need to use your probe to get it to open up). This slit is the glottis, and it is the opening to the lungs. The frog breathes and vocalizes with the glottis. Use your probe to open the glottis and compare that opening to the esophagus. ☐



# Frog Pre Lab Sheet

**Minjie Lin**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

## Frog Pre Lab Sheet:

**Lab Manual for General, Organic, and Biochemistry** Denise Guinn, Rebecca Brewer, 2009-08-21 Teaching all of the necessary concepts within the constraints of a one term chemistry course can be challenging Authors Denise Guinn and Rebecca Brewer have drawn on their 14 years of experience with the one term course to write a textbook that incorporates biochemistry and organic chemistry throughout each chapter emphasizes cases related to allied health and provides students with the practical quantitative skills they will need in their professional lives Essentials of General Organic and Biochemistry captures student interest from day one with a focus on attention getting applications relevant to health care professionals and as much pertinent chemistry as is reasonably possible in a one term course Students value their experience with chemistry getting a true sense of just how relevant it is to their chosen profession To browse a sample chapter view sample ChemCasts and more visit [www.whfreeman.com/gob](http://www.whfreeman.com/gob) Instructor's Manual for the Laboratory Manual for Starr and Taggart's Biology : The Unity and Diversity of Life and Starr's Biology Concepts and Applications James W. [et. al]. Perry, 2002 Instructor's Manual for Perry and Morton's Laboratory Manual for Starr and Taggart's Biology, the Unity and Diversity of Life and Starr's Biology, Concepts and Applications Joy B. Perry, 1992 *Learning from Each Other* Michele Lee Kozimor-King, Jeffrey Chin, 2018-08-21 Learning from Each Other includes 20 original chapters written by well known experts in the field of teaching and learning Conceived for both new and experienced faculty at community colleges four year institutions and research intensive universities the volume also addresses the interests of faculty and graduate students in programs designed to prepare future faculty and campus individuals responsible for faculty professional development With the aim of cultivating engagement amongst students and deepening their understanding of the content topics covered in this edited volume include employing the science of learning in a social science context understanding the effects of a flipped classroom on student success pedagogical techniques to create a community of inquiry in online learning environments the risks and rewards of co teaching reaching and teaching non traditional students facilitating learning and leadership in student team projects connecting students with the community through research issues of assessment including backward design developing and using rubrics and defining and implementing the scholarship of teaching and learning Through Learning from Each Other all faculty who care about their teaching but especially faculty in the social sciences can successfully employ curricular innovations classroom techniques and advances in assessment to create better learning environments for their students **Special Reference Briefs** ,1983 A Laboratory Manual of the Anatomy of the Rat Harrison Randall Hunt, 1924 **Laboratory Manual for Human Physiology** Carl Gottfried Hartman, 1914 **Catalog of Agricultural, Scientific, and Research-related Microcomputer Software at the National Agricultural Library** Robert Paul Anderson, 1989 *Biology* ,1996 **Report of the Auditor** South Dakota. Auditor's Office, 1913 **The Electrician** ,1892 National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1969 First multi year cumulation

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Humphrey, Henry Van Dyke, David L. Willis, 1965      Frog Neurobiology R. Llinas, W. Precht, 2012-12-06 In review the amount  
of information available on the morphological and functional properties of the frog nervous system is very extensive indeed  
and in certain areas is the only available source of information in vertebrates Further more much of the now classical  
knowledge in neurobiology was originally obtained and elaborated in depth in this vertebrate To cite only a few examples  
studies of nerve conduction neuromuscular transmission neuronal integration sense organs development and locomotion  
have been developed with great detail in the frog and in conjunction provide the most complete holistic description of any  
nervous system Added to the above considerations the ease with which these animals may be maintained both as adults and  
during development and the advantage of their lower cost as compared with other vertebrate forms make the frog one of the  
most important laboratory animals in neurobiology With these thoughts in mind we decided to compile this volume Our goal  
in doing so was to assemble as much as possible of the information available on frog neurobiology and to have the different  
topics covered by authorities in each of the fields represented To keep the handbook restricted to one volume we found it

necessary to omit the large field of amphibian muscle neurobiology which has already been summarized in various other publications

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