

## Frog Dissection: External Anatomy



1. Observe the dorsal and ventral sides of the frog.  How do they differ in color?  
 Dorsal side color \_\_\_\_\_ Ventral side color \_\_\_\_\_  
 What is the name of this adaptation? \_\_\_\_\_

2. Examine the hind legs.   
 How many toes are present on one foot? \_\_\_\_\_ Are the toes webbed? \_\_\_\_\_

3. Examine the forelegs.   
 How many toes are present on one foot? \_\_\_\_\_ Are the toes webbed? \_\_\_\_\_

4. To determine the frog's sex, look at the forelimb digits. A male frog may have thick pads on its "thumb," which is one external difference between the sexes, as shown on the diagram. Observe several frogs to see the differences between males and females.

Is your frog male or female? \_\_\_\_\_



5. 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 (Length in cm)	Frog 2	Frog 3	Frog 4	Frog 5	Average Length

6. Locate the frog's eyes. The frog has three eyelids. The 2 outer ones are the color of the frog's body. They do not move. Locate the third eyelid. It is a transparent membrane that protects the eye while permitting the frog to see underwater. It is called the **nictitating membrane**. Use forceps to carefully remove the nictitating membrane. You may also remove the eyeball.

What color is the nictitating membrane? \_\_\_\_\_

What color is the eyeball? \_\_\_\_\_

8. 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 slimy? \_\_\_\_\_

## 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 the frog's mouth opens wide enough to view the structures.

1. Locate the **larynx**. Play with the tongue.  
 Does it attach to the front or the back of the mouth? \_\_\_\_\_ (This may remove the tongue)

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.

# Frog Dissection Internal Anatomy Answer Key

**Walter Bradford Cannon**



## **Frog Dissection Internal Anatomy Answer Key:**

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