Frog Anatomy & Dissection

A visual guide to basic frog anatomy and dissection.

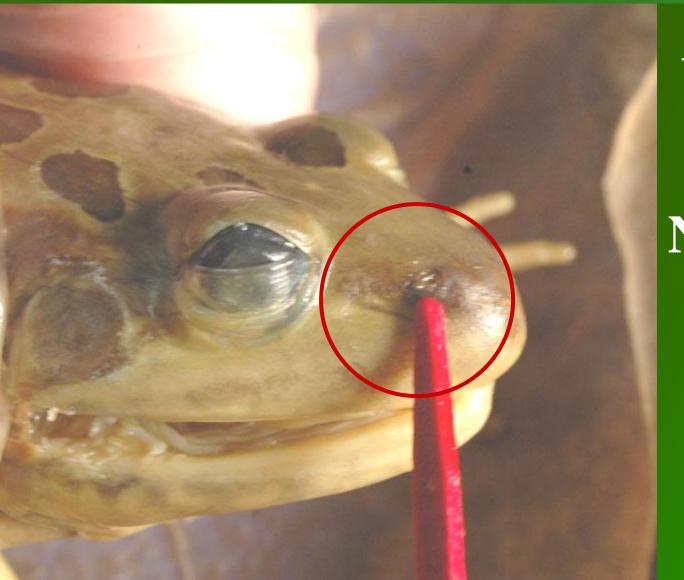
Vinoband

The Eye



Frog's eyes are covered by a nictating membrane that allows it to see under water.

Nostrils



Also called the **External** Nares, these are the same as your nostrils.

Eardrum (tympanum)



Frogs hear just like you do! They just don't have an external ear structure.

Webbed Feet & Digits Frog

Frogs have webbed feet to help them move under water, they act like **flippers!**

Tongue



Where is the tongue attached? See if you can plug the frog's nose with it's tongue.

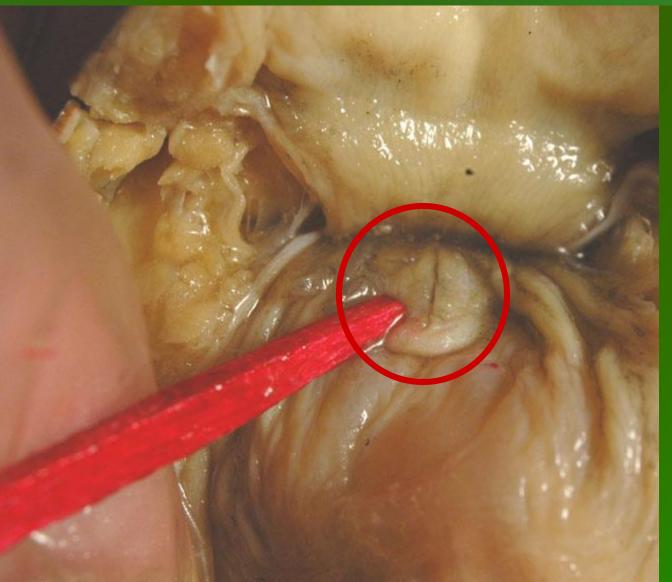
Vomerine Teeth

Frogs don't chew their food! These teeth hold onto the food until it can be swallowed.

Internal Nares

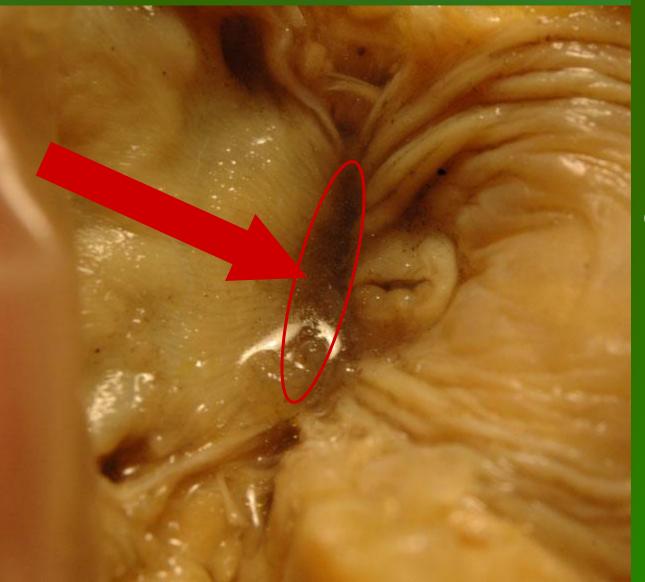
These are openings that allow air into the frog's lungs. A frog must plug these when underwater.





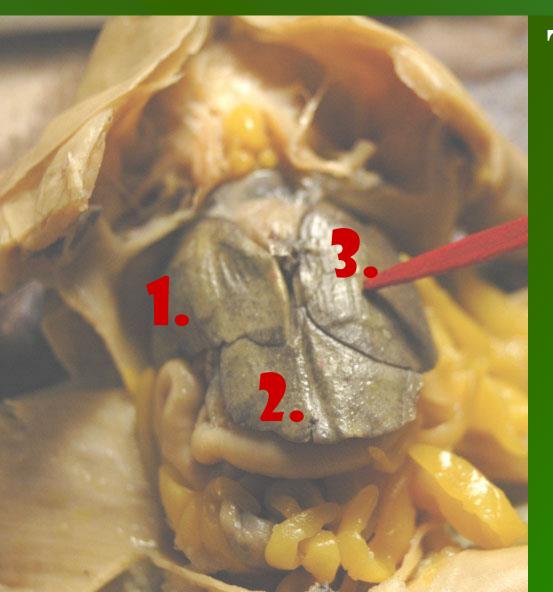
This is the entryway to the trachea, which leads air to the lungs.

Esophagus



The esophagus is the width of the frog's mouth. Remember, frogs don't chew what they eat!

Liver



The liver is large, greenish brown, and has 3 lobes. It covers the stomach, intestine, lungs, excretory and reproductive systems.

Gallbladder



Lift the lobes of the liver to find the gallbladder. This one is full, your frog's might be empty.

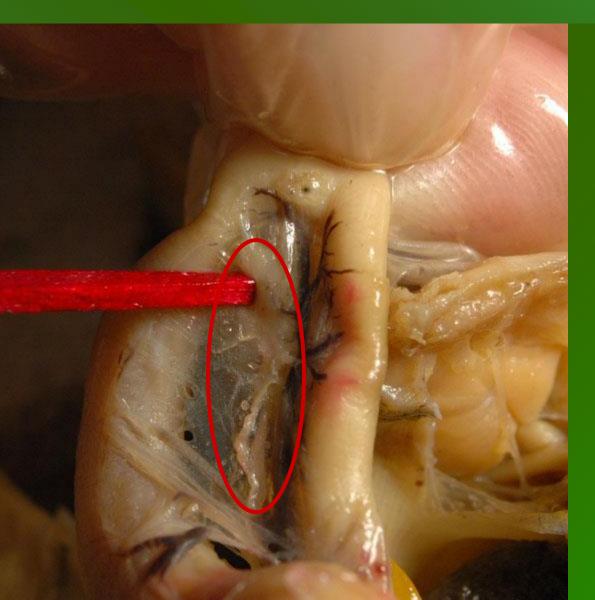


Look for the tan triangle between the liver. A frog has one less chamber then a human heart!

Lungs

The lungs

Pancreas



Certainly the most difficult organ to find. It is in the mesentery around the small intestine.





Also very hard to locate. It is behind the small intestine near the rectum.

Small Intestine &

TONA

Stomach

SM. INTESTICE

Blood Vessels & Mesentery You can

You can see the blood vessels that are connected to the small intestine inside the mesentery

Large Intestine & Waste Undig

Undigested material is stored in the large intestine and passed out the cloacal opening.

Digestive Tract

SM. INTESTINE

STOMACH



Kidneys



The kidneys are against the back of the frog along the backbone. They look like dark brown, shelled pecans.

Cloacal Vent



Located between the legs, this is where both solid and liquid waste exit the frog's body.

The Leg Muscular & Skeletal

Here you see the Femur, with the muscles removed. What type of joint has been taken apart?

Brain & Spinal Cord



Look how small a frog's brain is! The circle is the brain the rectangle is the spinal cord.

Dissection Procedures

Cutting the mouth

nego

Cut both sides of the jaw open by placing the scissors as shown and cutting, unhinging the jaw.

Pinning down the



Use the **'T-pins' to** secure your frog to the dissecting pan. Place the pins so they are not in your way.

Removing the Liver

Lift the liver to cut it free. It will take several small cuts. Careful don't cut the heart.

Cutting out theStomachPlace the

Place the scissors at the top of the stomach as shown and cut the stomach free. Careful, don't cut the lungs or heat.

Cutting Free the

Rectum

Find where the rectum ends and place the scissors as shown and cut free the digestive tract.

Inside of Stomach

You can cut open the stomach and see what the frog's last meal was. Look for the muscular ridges.

Villi of Sm. Intestine

Open the small intestine. Look at all the surface area the villi create. The purpose of the villi is to absorb nutrients.

