

Frog Dissection - Dissection Instructions

Before you begin dissecting your frog, locate the following external parts of the frog and the internal mouth parts

Figure 1: Frog external features

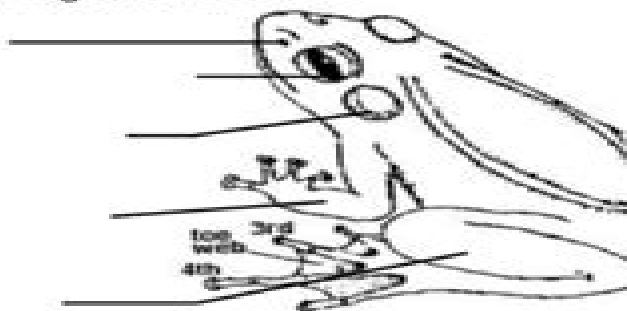
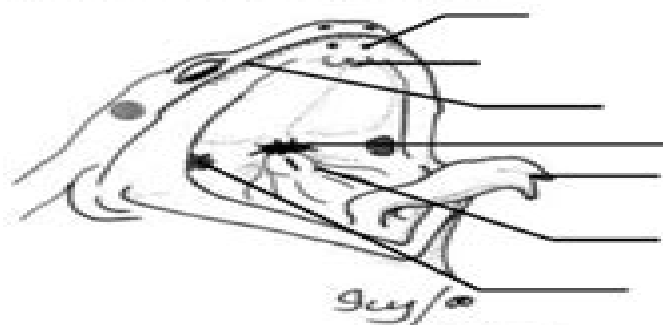
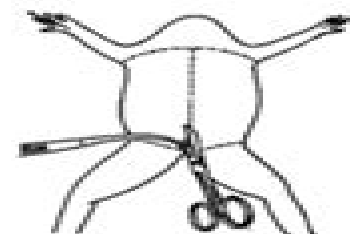


Figure 2: Frog mouth interior



Place the frog in the dissecting pan ventral (stomach) side up.

- 1) Use the tweezers to lift the skin away from the body cavity. Using the scissors cut along the midline of the body from the pelvic to the pectoral girdle. (see diagram)
- 2) Make transverse (horizontal) cuts near the arms and legs.
- 3) Lift the flaps of skin and pin back onto the dissecting tray
- 4) Repeat steps 1-3 for the abdominal muscles of the frog.



***If your specimen is a female, the body may be filled with eggs and an enlarged ovary. You may need to remove these eggs to view the organs.**

Locate each of the organs below.

Fat Bodies --Spaghetti shaped structures that have a bright orange or yellow color, if you have a particularly fat frog, these fat bodies may need to be removed to see the other structures. Usually they are located just on the inside of the abdominal wall.

☐

Peritoneum A spider web like membrane that covers many of the organs, you may have to carefully pick it off to get a clear view

☐

Liver--The largest structure of the body cavity. This brown coloured organ is composed of three parts, or lobes. The liver is not primarily an organ of digestion, it does secrete a digestive juice called bile. Bile is needed for the proper digestion of fats.

☐

Heart - at the top of the liver, the heart is a triangular structure.

☐

Lungs - Locate the lungs by looking underneath and behind the heart and liver. They are two spongy organs and appear as deflated (brownish) membranes on either side of the chest.

☐

Gall bladder--Lift the lobes of the liver, there will be a small green sac under the liver. This is the gall bladder, which stores bile.

☐

Stomach--Curving from underneath the liver is the stomach (usually pale yellow in colour). The stomach is the first major site of chemical digestion. Frogs swallow their meals whole. Follow the stomach to where it turns into the small intestine.

☐

Frog Dissection Step By Step Guide

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Frog Dissection Step By Step Guide:

Frog Dissection Manual Bruce D. Wingerd, 1988 Illustrations and easy to follow instructions demonstrate how to properly dissect a frog and identify its anatomical structures **Biology**, 1999 **Apps for Learning** Harry J. Dickens, Andrew Churches, 2011-10-20 Provides detailed descriptions of forty apps that can be used in high school classrooms *The Complete Idiot's Guide to Science Fair Projects* Nancy K. O'Leary, Susan Shelly, 2003-12-02 Includes 50 project ideas Offering one stop shopping for all readers science fair needs including 50 projects covering all science disciplines and rated from beginner through advanced this book takes students and parents through the entire scientific method The Complete Idiot's Guide to Science Fair Projects offers a variety of experiments with the right chemistry for you In this Complete Idiot's Guide you get An explanation of the scientific method and the step by step procedure of applying it to your project More than 50 projects to choose from in the biological chemical botanical physical and earth sciences Tips on displaying your findings through the creation of graphs tables and charts An understanding of exactly what the judges look for in a winning project and paper The Frog; a Practical Guide Thomas Arthur Goodwill Wells, 1968 **Christian Home Educators'**

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