

Frog Dissection

Purpose: To investigate the external and internal anatomy of a frog and relate the structure of a frog to that of other vertebrates.

Materials: dissecting pan, dissecting scissors, dissecting pins (10), forceps, probe, goggles, frog specimen, plastic storage bag

PART ONE: EXTERNAL STRUCTURE

Read each step carefully. Using your diagram and careful observation of your frog locate the following external parts and complete the following information:

- Take a look at both the **fore (front) and hind (back) legs**. Compare their length and structure. Try to stretch out the hind legs to see their full length.
 - Number of digits on the fore (front) leg or arm: _____
 - Number of digits on the hind (back) leg: _____

- To determine the frog's sex, look at the hand digits, or fingers, on its forelegs. A male frog usually has thick pads on its "thumbs," which is one external difference between the sexes, as shown in the diagram below. Male frogs are also usually smaller than female frogs.
 - Is your frog a male or a female?



- Observe the **eyes** of your frog. The eyes are located on the top of the frog's head, as opposed to on the front (like young) or on the sides (like a fish).
 - Why do you think the placement of the eyes is particularly beneficial to the survival of the frog in its environment?

- Notice the membrane on the eyes. Frogs use their regular set of eyelids to keep their eyes moist and clean. This membrane is called the **nictitating membrane**. It is a semi-transparent lid that covers the eye completely, helping the frog see underwater and hide from predators.



- Observe the **ears (tympanic membranes)** located behind the eyes. Now look at the roof of the mouth. You will see two openings on each side of the jaw. Carefully insert the probe into the openings. These are the **eustachian tubes** which lead to the ears. The tympanic membrane and the eustachian tubes aid in the frog's hearing.

Frog Dissection Packet

SA Adler



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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 Frog Dissection Kit, 2001 Modern Biology, 1991 Albert Towle, 1989 *The Soul Caller* Ana Peters, 2011-08-24 A dramatic story of brotherhood magic and spiritual growth Two young men from Laos immigrate to Minnesota U S A during the Vietnam War Enemies and rivals for the love of a village woman who stayed behind each tries to resolve his confusion about living in a new culture and the loss of their beloved beauty Zoua Lee For Pao Moua Zoua comes alive in his paintings of the village On dark nights from a mural lit by headlights she speaks to Pao and helps him find a way to accept his new life For Lue Vang there is no such understanding He turns to gang life and must kill or be killed by his gang brothers In trying to help Lue Vang Pao nearly loses his life but in the process he undergoes a life changing experience that will lead him to become the shaman he always wanted to become On the other hand Lue Vang must leave the city to stay alive but he leaves transformed after seeing a vision of Zoua Lee and saving Paos life In the end he realizes his own courage **The Animal's Agenda**, 1999 **Analee, in Real Life** Janelle Milanes, 2019-09-17 Milanes has created authentic characters with family issues that reflect the world we live in Refreshing The New York Times Book Review Heartfelt and smart Lilliam Rivera author of *The Education of Margot Sanchez* Funny and affecting well balanced and simply fun Kirkus Reviews An entertaining novel for all teen collections School Library Journal A Cuban American teen navigates social anxiety her father s remarriage and being torn between two very cute boys in this genuine and humorous Booklist contemporary novel perfect for fans of Morgan Matson and Kasie West Ever since her mom died three years ago Analee Echevarria has had trouble saying out loud the weird thoughts that sit in her head With a best friend who hates her and a dad who s marrying a yogi she can t stand Analee spends most of her time avoiding reality and role playing as Kiri the night elf hunter at the center of her favorite online game Through Kiri Analee is able to express everything real life Analee cannot her bravery her strength her inner warrior The one thing both Kiri and Analee can t do though is work up the nerve to confess her romantic feelings for Kiri s partner in crime Xolkar a k a a teen boy named Harris whom Analee has never actually met in person So when high school heartthrob Seb Matias asks Analee to pose as his girlfriend in an attempt to make his ex jealous Analee agrees Sure Seb seems kind of obnoxious but Analee could use some practice connecting with people in real life In fact it d maybe even help her with Harris But the more Seb tries to coax Analee out of her comfort zone the more she starts to wonder if her anxious invisible self is even ready for the real world Can Analee figure it all out without losing herself in the process **Animal Sheltering**, 2003 Campbell-Walsh Urology E-Book Alan J. Wein, Louis R. Kavoussi, Alan W. Partin, Craig A. Peters, 2015-10-23 Internationally lauded as the preeminent text in the field Campbell Walsh Urology continues to offer the most comprehensive coverage of every aspect of urology Perfect for urologists residents and practicing physicians alike this updated text highlights all of the essential concepts necessary for

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