the science bank

alternatives to animal use in education

The largest **FREE** library of humane science products in the United States.

Realistic models, DVDs, CD-ROMs, and mannikins are available in multiple quantities for your entire classroom, free of charge.

About Animalearn

Animalearn is dedicated to assisting educators and students to finding effective, high-quality non-animal methods to teach and study science. Towards that objective, Animalearn developed The Science Bank—our lending program of humane science products that enable educators to teach and students to learn anatomy, physiology, and psychology lessons without harming animals, themselves, or the Earth. Our loan program offers the most innovative teaching tools for life science, psychology, veterinary, and medical education to thousands of people since 1996, and is continually growing. The following catalog lists the products that are currently available through The Science Bank. However, since our inventory is continually growing, please contact us if you don't see something that you need.

Animalearn
Animals, Ethics, and Education

the science bank
alternatives to animal use in education

Ordering from Animalearn

Phone: 800-729-2287 or 215-887-0816

Fax: 215-887-2088

website: www.Animalearn.org

E-mail: info@animalearn.org

Mail: 801 Old York Road Suite 204, Jenkintown, PA 19046

Contents

Frequently Asked Questions & Answers

Is this a free loan program?

Yes. However, Animalearn does request a valid Visa or MasterCard number or purchase order number to place on file as a security guarantee that the items we loan out will be returned for the next borrower. (No debit cards please.)

Will I be billed?

No charges will ever be placed on your credit card or purchase order, unless the materials are not returned to Animalearn or they are damaged. All efforts will be made to contact the borrower.

How do I borrow a product?

All you need to do is fill out the Loan Agreement on the back page of this brochure, then mail or fax it to us. You may also submit the agreement via our website, www.TheScienceBank.org or give us a call at 1-800-729-2287. Items are available on a first come, first serve basis, so be sure to send in your agreement two weeks ahead of time. Rush deliveries are available, otherwise please allow up to one week for delivery.

What if I need assistance?

Animalearn's staff is available to assist you should you need help choosing the appropriate alternative for your classroom or if you need assistance in using the products. Help with installing and viewing your loaned items is also available Monday-Friday 9am to 4pm E.S.T.

How do I return the borrowed item(s) to you?

Animalearn ships products through United Parcel Service (UPS). We ask that you ship the items back through UPS or the U.S. Postal Service, and that you insure the package so that you are not held responsible for loss of or damage to any items.

What if I want to buy a product?

If you would like to purchase any of the products that are on loan through The Science Bank, Animalearn can put you in contact with the manufacturer of the alternative. Animalearn does not sell any of the items that it lends.

How do I find the item that's best for my classroom needs?

To locate appropriate humane science products for various education levels, please refer to color codes in the legend. Symbols indicate the types of technology available, which correspond with each catalogue item.

Legend

Pre K	College / University	Med School	DVD
Elementary	Graduate School	Windows Compatible	VHS
Jr. High	Vet School	Mac Compatible	Diskette
Sr. High	Vet Tech	CD-ROM	

Anatomy of the Cat Video/DVD

This film features an in-depth look at cat anatomy. All major organ systems are examined. Running time 90 minutes.

*For additional cat alternatives see Microsurgical Techniques on Page 39.

Carolina

DVD

- Sr. High
- College / University

BioLab Cat

Offers high-resolution photography of external features, musculature, internal organs, and the skeletal system. Interactive capabilities allow students to learn cat anatomy and dissection through the click of a mouse.

Carolina

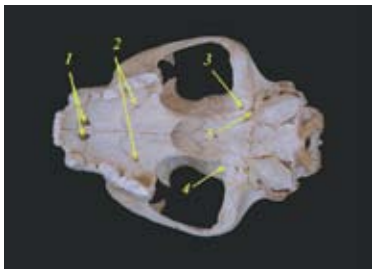
CD

- Jr. High
- Sr. High

Cat Dissection Laboratory

Using 3D display technology, this CD-ROM explains over 80 dissections including an examination of the cat's external anatomy, skeleton, muscles, internal cavities, and the nervous, circulatory, respiratory, digestive, and the male and female reproductive systems. Tutorial, lecture, and quiz mode are offered.

Neotek



CD

- Sr. High
- College / University

CatLab

A complete multimedia dissection of cat anatomy containing over 300 laboratory-quality images. This program contains separate tutorial modules for the skeleton, muscles, digestive system, urogenital system, circulatory system, and nervous system of the cat. Each module contains a self-assessment exam. Excellent for medical, dental, nursing, physical, and occupational therapy students.

Interactive Technology Group

CD

- College / University
- Graduate School
- Med School

CatWorks

Jr. High
Sr. High

An interactive computer simulation of a cat dissection. Testing functions allow the evaluator to track student performance and progress. Includes movie clips of actual dissections and a glossary with pronunciations of all key words and phrases.

ScienceWorks

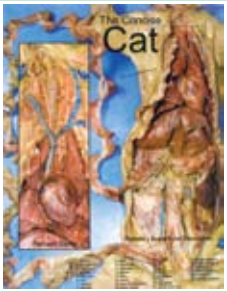
Common House Cat Skull

Jr. High
Sr. High
College / University
Graduate School
Vet School

Made from artificial materials, and measuring 4” long, 2 1/2” wide, and 2” high, this model of a domesticated cat skull provides the student with an intricate look into the anatomical structure of this companion animal.

Bone Clones

Concise Dissection Chart: Cat



Jr. High
Sr. High
College / University

An 8 1/2” x 11” chart uses high quality photography to depict the complete dissection of a cat.

BioCom

The Dissection Video Series: Cat

Jr. High
Sr. High
College / University
Graduate School

Utilizing state-of-the-art equipment and technique, the video follows the entire dissection process. A careful narrative complimented by full color close-ups allows students to follow along, even when locating difficult anatomical structures. A printed script with numbered frame references and a complete glossary are included. Running time 39 minutes.

Boreal

Pregnant Cat Model

This life-size dissection model features over 100 individual anatomical details. An extremely realistic and precise model, it is crafted with hand-painted detail. Featured structures include a cross-sectioned kidney showing the cortex and medulla, major arteries and veins, muscle groups of the fore and hind limbs, and the open uterus exposing a developing fetus. This model also has an open mouth cavity detailing the teeth and nasopharynx, and includes a key identifying 136 structures.

WARD'S

- Jr. High
- Sr. High
- College / University

Anatomy of the Crayfish Video

An excellent introduction to the anatomy of the crayfish. This video program covers the structure and function of the organs and systems in this representation of the arthropods. All major organ systems are thoroughly examined. Includes teacher's manual. Running time 20 minutes.

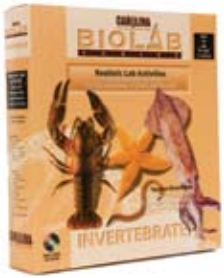
Carolina

- Jr. High
- Sr. High
- College / University

BioLab Invertebrate: Crayfish Dissection

Examines the distinguishing features of the dorsal, ventral, and internal views. Allows a student to examine and compare the structure and function of the crayfish's digestive, respiratory, reproductive, nervous, circulatory, skeletal, and excretory systems to that of the earthworm and sea star. An on-screen log allows the teacher to track the student's progress.

Carolina



- Jr. High
- Sr. High
- College / University

Concise Dissection Chart: Crayfish

An 8 1/2" x 11" chart uses high quality photography to depict the complete dissection of a crayfish.

Biocam

- Jr. High
- Sr. High
- College / University

Crayfish Model Activity Set

Elementary
Jr. High

Includes all the distinctive features of the crayfish: a close-up section of the gills, the 'teeth' in the stomach, and the unique musculature of the tail, all clearly displayed on one raised-relief plaque. The lateral section shows all the major organs, while the inset details the method of respiration. It includes an activity binder containing lesson plans, student activities, and an overhead transparency.

WARD'S

Dissection of the Crayfish

Jr. High
Sr. High

Explores the functional anatomy of the crayfish, including external anatomy, sensory and abdominal appendages, as well as the digestive, circulatory, nervous, excretory, and reproductive systems.

Digital Imaging Associates, Inc.

The Dissection Video Series: Crayfish

Jr. High
Sr. High
College / University

Utilizing state-of-the-art equipment and technique, the video follows the entire dissection process. A careful narrative complimented by full color close-ups allows students to follow along, even when locating difficult anatomical structures. A printed script with numbered frame references and a complete glossary are included. Running time 19 1/2 minutes.

Boreal

DissectionWorks: The Crayfish

Jr. High
Sr. High

An interactive computer simulation that examines the external features as well as a dorsal and ventral dissection. This program includes schematics and a glossary for a greater understanding of the crayfish dissection, as well as a quiz for self-assessment.

ScienceWorks

DryLab Plus: Crayfish

This new program examines the anatomy of the crayfish through high-resolution photographs, video, and detailed illustrations. Includes topics such as limb regeneration, molting, and unique mating behavior. It includes a complete online dissection, comprehensive final exam, and detailed student tracking abilities.

Tangent Scientific

- Jr. High
- Sr. High
- College / University
- Graduate School

Laboratory Dissection Video Series: Crayfish

Excellent close-up photography and detail of the crayfish dissection. Each frame is on screen for 50 to 60 seconds and can be held longer. Partly captioned and partly uncaptioned for quiz and review. No audio. Running time 30 minutes.

Educational Images LTD.

- Jr. High
- Sr. High
- College / University

Pit Bull Dog Skull

Made from artificial materials, and measuring 9” long, 6” wide, and 4 1/2” high, this model of an American Pit Bull Terrier skull provides the student with an intricate look into the anatomical structure of this loyal guardian.

*For additional dog alternatives see Microsurgical Techniques on Page 39.

Bone Clones

- Jr. High
- Sr. High
- College / University
- Graduate School
- Vet School

Anatomy of the Earthworm Video

Highlights the functional anatomy of the earthworm. Running time 30 minutes.

Carolina

- Jr. High
- Sr. High
- College / University

Jr. High
Sr. High
College / University

BioLab Invertebrate: Earthworm Dissection

Examines distinguishing features of the external, cross-section, and internal views of the earthworm. The structure and function of the digestive, respiratory, reproductive, nervous, circulatory, skeletal, and excretory systems are examined and compared to those of the crayfish and sea star. An on-screen log allows the teacher to track the student's progress.

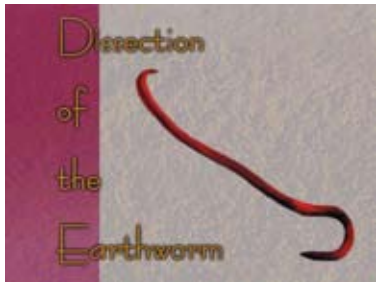
Carolina

Jr. High
Sr. High
College / University

Concise Dissection Chart: Earthworm

This 8 1/2" x 11" chart uses high quality photography to depict the complete dissection of an earthworm.

Biocam



Jr. High
Sr. High
College / University

Dissection of the Earthworm

Explores the functional anatomy of the earthworm. Topics include the external anatomy and the digestive, excretory, circulatory, reproductive, and nervous systems.

Digital Imaging Associates, Inc.

Jr. High
Sr. High
College / University

DissectionWorks: The Earthworm

An interactive simulation of the dorsal dissection of an earthworm that also includes an examination of the external features. This program includes schematics and a glossary, as well as a quiz for self-assessment.

ScienceWorks

DryLab Plus Earthworm

This CD-ROM allows students to study both the external and internal anatomy of the earthworm, and includes an interactive 9-step dissection. Students can receive a general overview or can focus on the microscopic details of each system. Videos include concepts such as movements of the lateral setae, the peristaltic movement of the worm, or the invasion of a circulatory or excretory parasite. Offers over 90 images, slides, diagrams, and over 500 questions.

Tangent Scientific

- Jr. High
- Sr. High
- College / University
- Graduate School

The Dissection Video Series: Earthworm

Utilizing state-of-the-art equipment and technique, the video follows the entire dissection process. A careful narrative complimented by full color close-ups allows students to follow along, even when locating difficult anatomical structures. A printed script with numbered frame references and a complete glossary are included. Running time 10 minutes.

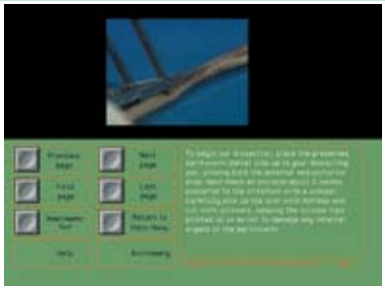
Boreal

- Jr. High
- Sr. High
- College / University

The Earthworm

This CD-ROM shows in detail the anatomy of the earthworm, and discusses the earthworm's reproductive, circulatory, digestive, and nervous systems. Includes video footage of the earthworm in its natural habitat, with live action footage of the circular and longitudinal muscles in action. An interactive self-test and review are also included.

Nebraska Scientific



- Jr. High
- Sr. High

Earthworm Dissection Laboratory

Using 3D display technology, this program explains over 60 dissections including an examination of the earthworm's external anatomy, skeleton, muscles, internal cavities, the nervous, circulatory, respiratory, digestive, and the male and female reproductive systems, as well as flat and round worms. The CD-ROM offers a tutorial, lecture, and quiz mode.

Neotek

- Sr. High
- College / University

Earthworm Model

Jr. High
Sr. High
College / University

Realistic earthworm model is on a stand with base. Dissection of the anterior portion showing the digestive, circulatory, nervous, and reproductive systems. A cross section of the 22nd segment is shown.

Carolina

Laboratory Dissection Video Series: Earthworm

Jr. High
Sr. High
College / University

Excellent close-up photography and detail of the earthworm dissection. Each frame is on screen for 50 to 60 seconds and can be held longer. Partly captioned and partly uncaptioned for quiz and review. No audio. Running time 30 minutes.

Educational Images LTD.

Model Activity Set: Earthworm

Elementary

The model is shown in raised relief and clearly illustrates the internal structures of the earthworm. Set includes 24" x 18" model, activity notebook with glossary, key, blackline master, and color transparencies.

American Educational Products, Inc.

Anatomy of the Fetal Pig Video/DVD

Sr. High
College / University

This video program discusses the pig as a representative mammal, and many of the organs and systems are highlighted and examined. Includes teacher's manual. Running time 62 minutes.

Carolina

BioLab Pig

Provides the in-depth details of the digestive, respiratory, urogenital, endocrine, and skeletal systems. There are two mini-labs covering carbon dioxide production and heart rate as well as extensions covering peristalsis, heart function, antagonistic muscles, kidney function, and hormone balance.

Carolina

Jr. High
Sr. High

DissectionWorks: The Fetal Pig

An interactive simulation of a fetal pig dissection that includes an examination of the external features and a dorsal and ventral dissection. This program includes schematics and a glossary for a greater understanding of the fetal pig dissection, as well as a quiz for self-assessment.

ScienceWorks

Jr. High
Sr. High

The Dissection Video Series: Fetal Pig

Utilizing state-of-the-art equipment and technique, the video follows every step of the dissection process. Full color close-ups correlated to a careful narrative make it easy for students to follow along. Especially difficult to locate anatomical structures are identified by graphics and pointers. A printed script with numbered frame references and complete glossary accompanies the video. Running time 32 minutes.

Boreal

Jr. High
Sr. High
College / University

DryLab Plus Fetal Pig

This comprehensive program investigates the complex internal and external anatomy of the fetal pig. It includes detailed diagrams, slides, and over 100 photos of specimens at 8 different stages of gestation. Sound and video engage students, and over 400 questions are available through the assessment.

Tangent Scientific

Jr. High
Sr. High
College / University
Graduate School

Fetal Pig Model

Jr. High
Sr. High
College / University

Cast from an actual specimen, all of the intricate structural detail can clearly be seen on the model of a nearly full-term fetal pig. It features all internal organs and major arteries and veins found along the body cavity, head, and neck. In addition, the heart, lungs, stomach, liver, and intestines are removable as one unit, allowing students to study the deeper organs and vasculature, and one kidney is sectioned to show renal circulation. This model is made of a unique material for flexibility and durability, the look and feel of a real specimen, and is hand painted. It comes with a key identifying over 100 structures.

WARD'S

Laboratory Dissection Video Series: Fetal Pig

Jr. High
Sr. High
College / University

Excellent close-up photography and detail of the fetal pig dissection. Each frame is on screen for 50 to 60 seconds and can be held longer. Partly captioned and partly uncaptioned for quiz and review. No audio. Running time 30 minutes.

Educational Images LTD.

Model Activity Set: Fetal Pig

Elementary

The model is shown in raised relief and clearly illustrates the internal structures of the fetal pig. Set includes 24" x 18" model, activity notebook with glossary, key, blackline master, and color transparencies.

American Educational Products, Inc.

BioLab Frog

Jr. High
Sr. High

Provides an in-depth dissection of the external mouth and the digestive, circulatory, reproductive, and skeletal systems. There are four mini-labs that provide an interactive lab experience in physiology and anatomy.

Carolina

Bobbit Frog Model

This model, on a 16" x 21" base, depicts a dorsal and ventral dissection of a bullfrog. In the ventral dissection the organs are spread to show as much of the peritoneal anatomy as possible. The dorsal dissection details the brain, the eye, and the ear. Includes teacher's manual.

Carolina

- Jr. High
- Sr. High
- College / University

Concise Dissection Chart: Frog

8 1/2" x 11" chart uses high quality photography to depict the complete dissection of a frog.

Biocam

- Elementary
- Jr. High
- Sr. High

The Digital Frog 2.5 (Latest Version)

This CD-ROM includes sections on dissection, anatomy, and ecology. The anatomy module and the dissection module are linked, allowing for easy study of structure and function. The comparative anatomy section allows students to see how humans and frogs differ internally, and the ecology section allows students to gain a greater understanding and appreciation of the frog. A workbook complements the CD-ROM. The Digital Frog 2.5 now automatically checks for updates and is OSX Intel and Vista compatible.

Digital Frog International

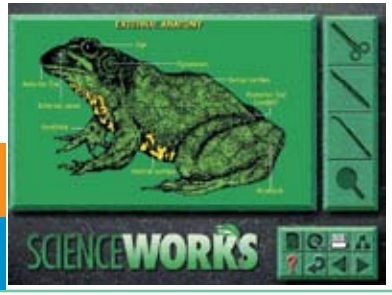
- Jr. High
- Sr. High
- College / University

Dissection of the Frog

Explores the functional anatomy of the frog. Topics include the external anatomy, including the frog's limbs and external sensory organs, as well as the digestive, excretory, circulatory, reproductive, and nervous systems.

Digital Imaging Associates, Inc.

- Jr. High
- Sr. High



DissectionWorks: Frog

An interactive simulation of a frog dissection that includes an examination of the external features and a dorsal and ventral dissection. This program includes schematics and a glossary for a greater understanding of the frog, as well as a quiz for self-assessment.

Jr. High
Sr. High

ScienceWorks

The Dissection Video Series: Frog

Utilizing state-of-the-art equipment and technique, the video follows the entire dissection process. A careful narrative complimented by full color close-ups allows students to follow along, even when locating difficult anatomical structures. A printed script with numbered frame references and a complete glossary are included. Running time 26 minutes.

Jr. High
Sr. High
College / University

Boreal

DryLab Plus Frog

This program uses over 100 high-resolution images, comprehensive illustrations, interactive dissection video, sound, and text to explore the frog. In addition to learning about the external features of the frog, the program also allows students to study the circulatory, digestive, muscular, nervous, respiratory, skeletal, and urogenital systems. Complete with test questions.

Jr. High
Sr. High
College / University
Graduate School

Tangent Scientific

FrogLab

Using 3D display technology, this program explains over 60 dissections including an examination of the frog's external anatomy, skeleton, muscles, internal cavities, and the nervous, circulatory, respiratory, digestive, and the male and female reproductive systems. The CD-ROM offers a tutorial, lecture, and quiz mode.

Sr. High
College / University

Neotek

The Frog: A Functional Anatomy

This CD-ROM highlights the systems and structures of the frog. Combining video segments, slides, audio commentary, rollover text, and menu bar navigation, this CD-ROM allows students to examine the major organ systems from anatomical, physiological, and histological perspectives. Also spotlights the main features that distinguish vertebrates from other subphylums of the animal kingdom. Available for Windows only.

Films Media Group

- Jr. High
- Sr. High
- College / University
- Graduate School

Great American Bullfrog Model

Twice the natural size, this replica of a sexually mature female bullfrog includes 10 organ systems. This model offers internal nares, vomerine teeth, Eustachian tube, and the nictitating membrane of the eye. There is a detachable heart, divided into anterior and posterior halves. Heart chambers and blood vessels throughout the body are color-coded to augment understanding of the circulation of the blood. More than 175 hand-numbered features are identified in the accompanying key, which also illustrates the male reproductive system.

Denoyer-Geppert

- Elementary
- Jr. High
- Sr. High

Junior Bullfrog Model

Slightly smaller than the Great American Bullfrog Model, but with just as much detail, this realistic model depicts both dorsal and ventral anatomy of a dissected female bullfrog. Over 100 hand-numbered features are shown, including both superficial and deep anatomical structures covering 10 organ systems. Model can be removed from its base for hands-on study. Also includes labeled illustration of the male reproductive system.

ScienceLab.com

- Jr. High
- Sr. High
- College / University

Laboratory Dissection Video Series: Frog

Quality close-up photography and detail of the frog dissection. Each frame is on screen for 50 to 60 seconds and can be held longer. Partly captioned and partly uncaptioned for quiz and review. No audio. Running time 30 minutes.

Educational images LTD.

- Jr. High
- Sr. High
- College / University

Model Activity Set: Frog

Elementary

The model is shown in raised relief, clearly illustrating the internal structures of the frog. Set includes 24" x 18" model, activity notebook with glossary, key, blackline master, and color transparencies.

American Educational Products, Inc.

ProDissector Frog

CD

Jr. High

Sr. High

College / University

This is a unique and realistic CD-ROM alternative to dissection featuring layered digital photographs that clearly reveal relationships of structures. Over 200 individual anatomical structures can each be identified, pronounced, and defined. Pro Dissector Frog contains narrated animations for major organ systems that demonstrate basic physiological processes. Also included are a timed self-test, index, and glossary.

Schneider and Morse Group

Realistic Frog Models (Male & Female)

Jr. High

Sr. High

These life-size frog models are available in a male as well as a female version, each offering incredible detail and realism. Cast from actual specimens, these models feature over 50 colorful details from the circulatory, musculatory, digestive, and reproductive systems. Even the structures of the inner mouth are visible. The models are made of flexible and durable material. They also include keys identifying 45 structures. Specify male, female, or both when ordering.

WARD'S

Uncover the Frog Book/Model

Elementary

Jr. High

This unique book includes a 3D layered model of a frog where students can deconstruct the frog, layer-by-layer, as they turn the pages. Interesting facts, attractive illustrations and diagrams, and a 3D layered model of a frog, are included. The model demonstrates the structures of the frog's body.

Author: Aimee Bakken

Vertebrate Dissection Guide: The Frog Video

Explores the functional anatomy of the frog. It is divided into the following sections: intro, external features, digestive system, male urogenital system, female urogenital system, circulatory system, nervous system, and skeleton. Running time 42 minutes.

The Media Development Centre

- Jr. High
- Sr. High
- College / University

V Frog

V Frog allows students to learn using a life-like 3D specimen, giving them a unique exploratory based interaction. True real-time interaction. Offers new virtual surgery technology for a distinctly different educational experience.

Tactus Technologies

- Jr. High
- Sr. High
- College / University
- Graduate School
- Vet School

SimNerv

Interactive CD-ROM simulates classic experiments on the sciatic nerve of the frog. The program is divided into three sections: Wetlands, Preparation, and Practical course. Featured experiments include determination of the relative and absolute refractory period, CAP amplitudes as a function of stimulation activity, and monophasic CAP after ligation of the nerve, as well as others.

Thieme

- Sr. High
- College / University
- Graduate School

Muscle Physiology

An interactive menu-driven program that simulates experiments on the frog sciatic nerve–gastrocnemius muscle preparation, illustrating the physiological properties of skeletal muscle.

Sheffield Bioscience Programs

- Sr. High
- College / University
- Graduate School

SimMuscle

Sr. High
College / University
Graduate School

Interactive CD-ROM focusing on the physiology of striated muscle in the leg of the frog. The program is divided into three sections: Wetlands, Preparation, and Practical course. Featured experiments include single twitch as a function of stimulation intensity, superimposition of double stimuli, tetanic contractions, resting tension curve, curve of isometric maximum values, curve of isotonic maximum values, force-shortening velocity relationships, and fatigue experiments.

Thieme

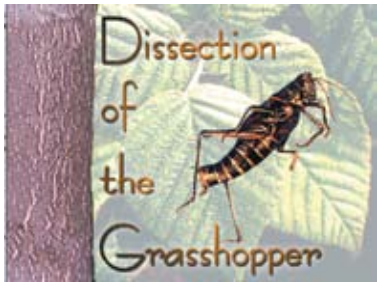
Concise Dissection Charts: Grasshopper

Jr. High
Sr. High
College / University

An 8 1/2" x 11" chart uses high-quality photography to depict the complete dissection of the grasshopper.

Biocam

Dissection of the Grasshopper



Jr. High
Sr. High

Explores the functional anatomy of the grasshopper. Topics include the external anatomy and the digestive, circulatory, and nervous systems.

Digital Imaging Associates, Inc.

Grasshopper Model

Jr. High
Sr. High
College / University

This one-piece realistic female grasshopper model is enlarged 6 times and mounted on a stand that allows for rotation. Model is sectioned medially and shows all major organ systems dissected in detail, and includes a key identifying 57 structures.

WARD'S

Laboratory Dissection Video Series: Grasshopper

Excellent close-up photography and detail of the grasshopper dissection. Each frame is on screen for 50 to 60 seconds and can be held longer. Partly captioned and partly uncaptioned for quiz and review. No audio. Running time 30 minutes.

Educational Images LTD.

- Jr. High
- Sr. High
- College / University

Anatomy of the Freshwater Mussel Video

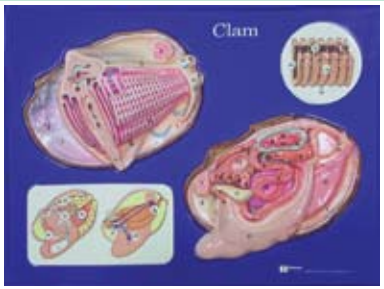
This video provides an introduction to the structure and function of the organs and systems in this ancient phylum. All major organ systems are featured. Includes teacher's manual. Running time 18 minutes.

Carolina

- Jr. High
- Sr. High
- College / University

Clam Activity Model

This model is a raised-relief plaque depicting the clam's anatomy in two views, illustrating half the shell, the mantle, and a portion of the foot cut away to reveal the internal organs. The gill structure is shown in the inset diagrams. The model comes with an activity binder containing lesson plans, an overhead transparency, and other supporting materials.



WARD'S

- Elementary
- Jr. High

Concise Dissection Chart: Clam

An 8 1/2" x 11" chart uses high quality photography to depict the complete dissection of a clam.

Biocam

- Jr. High
- Sr. High
- College / University

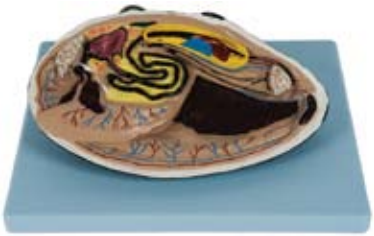
Laboratory Dissection Video Series: Clam

Jr. High
Sr. High
College / University

Excellent close-up photography and detail of the clam dissection. Each frame is on screen for 50 to 60 seconds and can be held longer. Partly captioned and partly uncaptioned for quiz and review. No audio. Running time 30 minutes.

Educational Images LTD.

Realistic Clam Model



Jr. High
Sr. High
College / University

This life-like Pelecypod mollusk is enlarged 5 times and highlighted with various colors to show circulation patterns and more. Mounted on a base with a key that identifies 53 structures.

WARD'S

Anatomy of the Perch Video

Jr. High
Sr. High
College / University

Video program provides an in-depth look at a typical bony fish. All major organ systems are examined. Includes teacher's manual. Running time 26 minutes.

Carolina

BioLab Fish

CD

Jr. High
Sr. High
College / University

This CD-ROM covers the external and internal anatomy of the perch, the shark (dogfish), and the lamprey. Virtual labs include an interactive comparison of fish and a closer look at respiration rate, capillary flows, and dissolved oxygen.

Carolina

Concise Dissection Chart: Perch

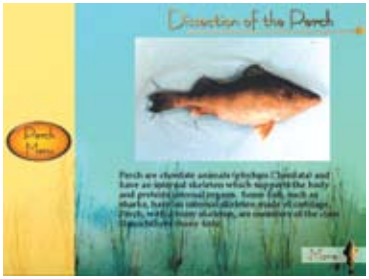
An 8 1/2" x 11" chart that uses high quality photography to depict the complete dissection of a perch.

Biocam

- Jr. High
- Sr. High
- College / University

Dissection of the Perch

Explores the functional anatomy of the perch, with topics including the external anatomy and the digestive, circulatory, and nervous systems.



Digital Imaging Associates, Inc.

- Jr. High
- Sr. High

DissectionWorks: The Perch

An interactive computer simulation that includes an examination of the external features as well as a dorsal and ventral dissection. This program includes schematics and a glossary for a greater understanding of the perch dissection, as well as a quiz for self-assessment.

ScienceWorks

- Jr. High
- Sr. High
- College / University

DryLab Plus Perch

Including more than 50 high-resolution images and a complete interactive dissection video, this program gives students a comprehensive look at the external and internal features of the perch. Includes topics of mobility, buoyancy, and protection in the 15-step dissection. Approximately 200 questions allow for student testing.

Tangent Scientific

- Jr. High
- Sr. High
- College / University
- Graduate School

Laboratory Dissection Video Series: Perch

Excellent close-up photography and detail of the perch dissection. Each frame is on screen for 50 to 60 seconds and can be held longer. Partly captioned and partly uncaptioned for quiz and review. No audio. Running time 30 minutes.

Jr. High
Sr. High
College / University

Educational Images LTD.

Marine Life Series: Anatomy of a Fish

Basic anatomical structures and functions are the subject of this interesting program that covers external, internal, and skeletal structures of bony fish. Students learn how various parts work together to support life. Contains word games to help students learn to identify anatomical structures. Presents a series of quizzes that generate multiple choice and true/false questions.

Jr. High
Sr. High
College / University

Ventura Educational Systems

Perch Model

Cast from an actual specimen, this hand painted life-size perch model clearly shows over 50 exterior and interior anatomical details. Every major body system is included: digestive; circulatory, with major arteries and veins; respiratory; musculatory; and reproductive. A cut-out dorsal view of the brain is also featured, displaying the optic nerves, olfactory tract, optic lobes, cerebellum, and associated cranial nerves. The perch model is made from flexible, unbreakable materials and includes a key identifying all structures.

Jr. High
Sr. High
College / University

WARD'S

The Pigeon: A Functional Anatomy

This CD-ROM focuses on the systems and structures that make up the pigeon, a member of the bird subspecies *Columba livia domestica*. It blends video segments, slides, audio commentary, and menu bar navigation into an exploration of each major organ system from anatomical, physiological, and histological perspectives. Also included is an overview of its physical and behavioral characteristics and a summary of key features of the groups that make up the vertebrate subphylum. Available for Windows only.

Jr. High
Sr. High
College / University

Films Media Group

Vertebrate Dissection Guide: The Pigeon Video

This video can be viewed in sections or its entirety. It is divided into the following sections: intro, external features, digestive system, female urogenital system, male urogenital system, circulatory system, head and brain, and skeleton. Running time 50 minutes.

The Media Development Centre

- Jr. High
- Sr. High
- College / University

Concise Dissection Chart: Rat

An 8 1/2" x 11" chart uses high quality photography to depict the complete dissection of a rat.

Biocam

- Jr. High
- Sr. High
- College / University

DryLab Plus Rat

This CD gives students a comprehensive look at male, female, and pregnant female internal and external rat anatomy, including a close look at the adult and fetal skeletal systems. Over 130 pictures and diagrams, 500 questions, and full motion video are available. There is a 35-step dissection and a 3D look at the appendix, stomach, lungs, and heart.

Tangent Scientific

- Jr. High
- Sr. High
- College / University
- Graduate School

The Rat: A Functional Anatomy

This program examines the external features and internal anatomy of the brown rat. Areas examined include the digestive system, female and male urogenital systems, sense organs, brain, and skeleton. An introduction is included, and a thoracic dissection is also performed.

Films Media Group

- Jr. High
- Sr. High
- College / University

Rat Model

Life-size depiction of rodent anatomy that comes with a key.

Jr. High
Sr. High
College / University

Education & Science Products Inc.

Realistic Rat Model

This highly detailed hand painted model was patterned on an actual dissected rat. Made from unbreakable material, the durable life-size model features a number of detailed structures including a fetus in a partially dissected uterus and a sectioned kidney. In includes a key identifying over 50 structures.

Jr. High
Sr. High
College / University

WARD'S

Vertebrate Dissection Guide: The Rat Video

This video can be viewed in sections or in its entirety. It is divided into the following sections: intro, external features, digestive system, female urogenital system, male urogenital system, thoracic dissection, sense organs and brain, and skeleton. Running time 57 minutes.

Jr. High
Sr. High
College / University

The Media Development Centre

SimVessel

Part of the Virtual Physiology Series, SimVessel CD-ROM is a realistic virtual laboratory simulating experiments with smooth muscle strips from blood vessels (aorta) and the stomach (antrum). Students in physiological and pharmacological courses can analyze the effects of physiological modulators (norepinephrine, acetylcholine) and pharmacological substances (Phentolamine, Propranolol, Atropin, Verapamil). A flexible structure allows the user to decide on both the sequence and combination of drug application. Muscle contractions are shown on a virtual chart recorder and can be stored and printed for subsequent analysis.

College / University
Graduate School
Med School

Thieme

Anatomy of the Shark Video

This video covers the dissection of the spiny dogfish, which illustrates the anatomy of a cartilaginous fish. All major organ systems are examined thoroughly. Includes teacher's manual. Running time 58 minutes.

Carolina

- Jr. High
- Sr. High
- College / University

BioLab Fish

This CD-ROM covers the external and internal anatomy of the shark (dogfish), the perch, and the lamprey. Virtual labs include an interactive comparison of fish and a closer look at respiration rate, capillary flows, and dissolved oxygen.

Carolina

- Jr. High
- Sr. High
- College / University

The Dogfish: A Functional Anatomy

This CD-ROM focuses on the systems and structures that make up the lesser spotted dogfish, a member of the shark order Carcharhiniformes. It blends video, slides, audio, and rollover text, into an in-depth exploration of major organ systems from anatomical, physiological, and histological perspectives. Also included is an overview of physical and behavioral characteristics, and a summary of key features of the groups that make up the vertebrate subphylum.

Films Media Group

- Jr. High
- Sr. High

Marine Life Series: Anatomy of the Shark

Basic knowledge of the shark's external anatomy, skeleton, circulatory system, nervous system, and urogenital systems are featured in this easy to use program. The program uses colorful diagrams, tracks student's progress, and reinforces terminology and skills through fun quiz component.

Ventura Educational Systems

- Jr. High
- Sr. High
- College / University

Pregnant Shark Model

Jr. High
Sr. High
College / University

Cast from a real specimen and painted to show fine detail, this model features a pup with a yolk sac in the uterus. It also shows the mouth and pharynx; a dorsal view of the eyes, brain, and cranial nerves; branchial circulation; a ventral view of the viscera and circulatory vasculature; and the trunk musculature in lateral and cross-sectional views. The model is made from unbreakable materials and includes a key identifying 100 structures.

WARD'S

Vertebrate Dissection Guide: The Dogfish Video

Jr. High
Sr. High
College / University

This 53-minute video can be viewed in sections or its entirety. It is divided into the following sections: intro, external features, digestive system, female urogenital system, male urogenital system, anterior circulatory system, sense organs and the brain, and skeleton.

Media Development Centre

Anatomy of the Starfish Video

Jr. High
Sr. High
College / University

Video covers the structure and function of the organs and systems representative of the phylum Echinodermata. All major organ systems are thoroughly covered. Running time 18 minutes. Includes teacher's manual.

Carolina

BioLab Invertebrate: Sea Star Dissection

Jr. High
Sr. High

This CD evaluates the aboral, oral, and internal features of the sea star. The structure and function of the digestive, respiratory, reproductive, nervous, circulatory, skeletal, and excretory systems are examined and compared to those of the earthworm and the crayfish. An on-screen log allows for tracking of student progress.

Carolina

Concise Dissection Chart: Starfish

This 8 1/2" x 11" chart uses high quality photography to depict the complete dissection of the starfish.

Biocam

- Jr. High
- Sr. High
- College / University

Dissection of the Starfish

Explores the functional anatomy of the starfish. Topics include the external anatomy and the digestive, circulatory, and nervous systems.

Digital Imaging Associates, Inc.

- Jr. High
- Sr. High

The Dissection Video Series: Starfish

Utilizing state-of-the-art equipment and technique, this video follows every step of the dissection process. Full color close-ups and a narrative help students to follow along. Graphics and pointers identify anatomical structures, which can sometimes be difficult to locate. The video is accompanied by a printed script and complete glossary. Running time 17 minutes.

Boreal

- Elementary
- Jr. High

Introductory Starfish Model

This raised-relief plaque model shows all of the intricate components of the internal and external anatomy of the starfish. This model features three dissected arms of varying depths, which illustrate reproductive, digestive, and water vascular systems. The central disc is also partly dissected to display the ring canal and madreporite, and there is a key printed on the plaque identifying twelve structures.

WARD'S

- Elementary
- Jr. High
- Sr. High

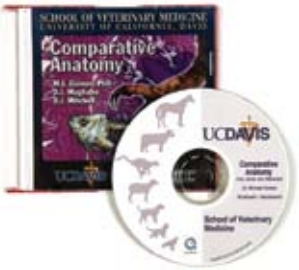
Starfish Model

Freestanding model allows students to view the intricate details of a starfish's surface structure as well as internal anatomy. Three arms dissected at various levels showing the digestive, reproductive, and water vascular systems. One arm is cross-sectioned to reveal the coelom. Hand painted for accuracy, it comes with a key identifying 25 structures.

Jr. High
Sr. High
College / University

WARD'S

Comparative Anatomy



Contains nine interactive learning modules designed to give the user an overview of the organ systems and related structures of mammals, birds, and fish. The user can browse the module at random, or use the tutorial mode to run through each module from start to finish. Modules contain gross, histologic, and electron microscopic images. Includes four movies of blood circulation in fish.

CD
Sr. High
College / University
Graduate School
Vet School

UC Davis

Concise Dissection Charts: Squid, Sheep Brain, and Pig Heart

This 8 1/2"x 11" charts use high quality photography to depict the complete dissections of a clam, sheep brain, and pig heart.

Jr. High
Sr. High
College / University

Biocam

Cow Eye Video/DVD

Detailed examination of a cow eye. This large organ shows structures including sclera, optic nerve, retina, tapetum, ciliary body, and major muscles. Use of a teaching model reinforces terms. Running time 16 minutes.

DVD
Jr. High
Sr. High

Nebraska Scientific

Marine Life Series: Life-cycle of Sea Lamprey

Students will gain an in-depth understanding of anatomical structures and their related biological functions using this program. Offers a series of quizzes based on information provided in the lessons.

Ventura Educational Systems

Jr. High
Sr. High
College / University

Pig Heart Video/DVD

Mammalian structures are identified by use of a pig heart. Terms identified include mediastinum, myocardium, coronary sulcus, chordae tendineae, tricuspid valve, and pectinate muscle. A teaching model is shown to emphasize structures. Running time 14 minutes.

Nebraska Scientific

Jr. High
Sr. High

Sheep Brain Video/DVD

A fully detailed dissection of a sheep brain is completed. Includes dura mater, sulci, optic chiasm, pons, fornix, arbor vitae, and 12 cranial nerves. Running time 22 minutes.

Nebraska Scientific

Jr. High
Sr. High

Uncover A Dog Book

This unique book contains a layered model, and is an educational teaching tool about the behavior and anatomy of our canine companions. Consisting of fun and interesting facts, this book is a visual treat for students wishing to learn about dogs.

Author: Paul Beck

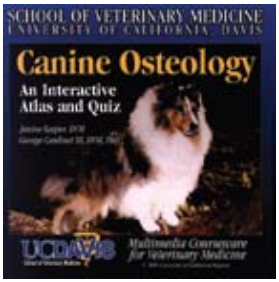
Elementary
Jr. High

Sr. High
College / University
Graduate School
Med School

SimHeart

This program focuses on the mechanisms of isolated cardiac muscle and the effects of cardioactive drugs on the heart. The program is divided into three sections: Preparation, Chemical Lab, and Practical course. Featured experiments include inotropic and chronotropic Adr effects, functional antagonism between Adr and ACh, atropine as a competitive inhibitor for ACh, alpha and beta-blocker, calcium channel blocker (verapamil), and cardiac glycosides (G-strophanthin) experiments.

Thieme

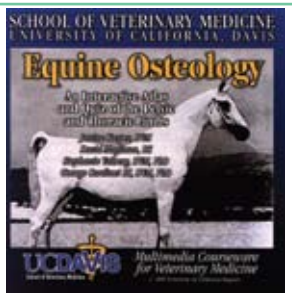


Vet School

Canine Osteology

This program presents full color digital images of the canine skeleton and a list of structures present in each image. Graphic highlighting identifies listed structures. Major articulations of the skeleton are presented.

Multimedia Courseware for Veterinary Medicine



Vet School

Equine Osteology

This program presents full color digital images of the equine appendicular skeleton and a list of structures present in each image. Graphic highlighting identifies listed structures. Major articulations of the skeleton are presented.

Multimedia Courseware for Veterinary Medicine

College / University
Graduate School
Med School

SimPatch

Part of the Virtual Physiology Series, SimPatch is an interactive CD-ROM providing a complete virtual laboratory with an electric stimulator, oscilloscope, and patch-clamp amplifier, where students can perform experiments simulating electrophysiological experiments on mammalian retinal neurons (ganglion, amacrine, bipolar and horizontal cells, as well as photoreceptors). Students can demonstrate their understanding of the physiology of ion channels and how pharmacological substances influence them.

Thieme

Lifecycle of a Butterfly

Colorful teaching model designed for hands-on use, detailing the life cycle of a butterfly. Made of resilient foam with removable pieces, it can be used as a jigsaw puzzle, matching game, and dramatic play. Comes with an activity card. Multiple copies available.

Book Plus Science Models

- Elementary
- Jr. High

Chick Development (CD-ROM)

This CD-ROM covers the stages of chick development from fertilization to hatching, allowing students to experience the process. Included are lessons on the anatomy of the chicken's reproductive tract and the anatomy of a chicken egg, among others. Program is engaging and answers many fun and interesting questions.

Carolina

- Jr. High
- Sr. High

Chicken Embryology Poster

This 21" x 34" poster features a series of photos and depicts 16 stages of development commonly studied in embryology. Accompanying text includes a brief description of each stage and the features that are visible.

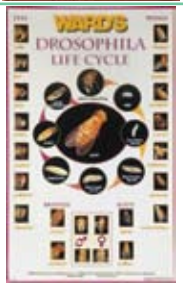
WARD'S

- Elementary
- Jr. High
- Sr. High

Drosophila Life Cycle Poster

This 21" x 34" poster illustrates the four stages in the life cycle of the fruit fly, and details phenotypes commonly used for identification, such as eye color, wing type, bristles, and body color, all prominently visible in up-close photographs. Photos also show examples of sex combs and abdomen color, which are traits used for sex determination.

WARD'S



- Jr. High
- Sr. High
- College / University

Frog Development Poster

Elementary
Jr. High
Sr. High

This is a 21" x 34" poster with color photos detailing the many stages of frog development, from egg to tadpole to frog.

WARD'S

Inflatable Frog Life Cycle

Pre K
Elementary

Inflatable Frog Life Cycle consists of four inflatables, and teaches students about the life cycle of frogs. The set realistically depicts eggs, tadpole, froglet, and frog, and has tabs for hanging display. Includes repair kit and activity guide.

Learning Resources

Lifecycle of a Frog

Elementary
Jr. High

Colorful teaching model detailing the life cycle of a frog, and designed for hands-on use. Made of resilient foam with removable pieces. Can be used as a jigsaw puzzle, matching game, and dramatic play. Comes with an activity card.

Book Plus Science Models

CyberEd Dissection Series

CD
Jr. High
Sr. High

This CD provides an interactive dissection of the frog, fetal pig, rat, earthworm, perch, and crayfish. Over 100 video demonstrations, 450 high quality photographs, and a randomized quiz for each animal are included. Students can select a dissection tool and make the appropriate incision, and if done correctly, a video plays the actual step being performed in the lab. The dissection is scored.

CyberEd

DissectionWorks (Frog, Earthworm, Crayfish, Perch, Fetal Pig)

Interactive simulations of frog, earthworm, crayfish, perch, and fetal pig dissections that include examinations of the external features including dorsal and ventral dissections. This program includes schematics and a glossary for a greater understanding of these dissections, as well as quizzes for self-assessment.

ScienceWorks

Jr. High
Sr. High

DryLab Suite (Crayfish, Earthworm, Fetal Pig, Frog, Perch, Rat)

Interactive dissections consist of an interactive dissection, video of special features, pictures emphasizing various anatomical aspects, and a quiz for each animal. The animals examined include a fetal pig, frog, perch, earthworm, rat, and crayfish. The student selects a dissection tool and makes the appropriate incision, and if done correctly, a video plays the actual step being performed in a lab. Between 75 and 150 high quality photos are available for each animal categorized by systems. Quiz mode option available.

Tangent

Jr. High
Sr. High
College / University
Graduate School

Marine Life Series: Marine Invertebrates (Sponges, Sea Anemone, Sea Star, Clam)

Basic program which covers simple and advanced sponges, a cross section of the sea anemone; the internal and external structures of the sea star; and the external system, digestive system, circulatory system, and nervous system of the clam. Student tracking ability and quiz component included.

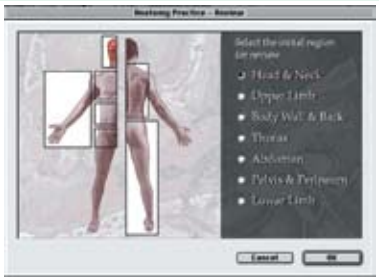
Ventura Educational Systems

Jr. High
Sr. High
College / University

A.D.A.M. Anatomy Practice

This CD-ROM offers nearly 500 images, allowing students and educators to review thousands of structures; compare up to four images simultaneously including illustrations, radiographs, and cadaver photographs; and to customize tests to focus on specific regions and systems.

ADAM Software, Inc.



Sr. High
College / University

A.D.A.M. The Inside Story

Explore the body layer-by-layer with detailed medical illustrations acclaimed by leading universities worldwide.

Sr. High
College / University

ADAM Software, Inc.

A.D.A.M. Interactive Anatomy

An interactive learning tool for the study of human anatomy, this CD-ROM contains a comprehensive database of over 400 images. Users can compare the same structure in anterior, lateral, medial, and posterior views. There are comprehensive 3D models of the heart, skull, lungs, eye, ear, brain, and male and female reproductive systems. The model rotates to the best view for each structure, and the transparency feature allows the user to look inside the structure.

Sr. High
College / University

Tangent

AnatLab

This is an easy-to-use interactive human anatomy tutorial. It uses 138 short, narrated movies of human anatomy demonstrations to help the user with a three-dimensional understanding of the body. Features include full color images, real cadaver still images, and sound buttons to help with pronunciations. There are also 28 lessons covering the body and quizzes at the end of each lesson.

Sr. High
College / University
Med School

Laser Professor

Anatomy Revealed: Face

This interactive program incorporates actual human dissections, clinical correlations with patient interviews, state-of-the-art morphs, radiographic images (X-Rays, MRIs, CTs, and angiograms), and a self-test.

Sr. High
College / University
Med School

Medical College of Ohio

Brain Model

Model is bisected to show internal and external structures, and is painted and numbered to distinguish the various components. The two-piece model has a base and can be removed for up-close study. It comes with a key identifying 82 structures.

3B Scientific

Jr. High
Sr. High
College / University

Deluxe Life-Size Brain Model with Arterial Blood Supply

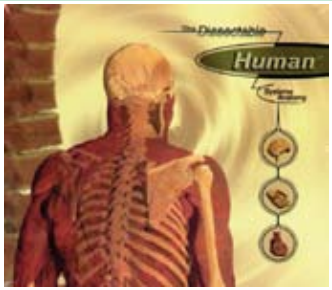
This model incorporates the arterial blood supply complete with termini of the internal carotids basilar artery and circle of Willis (circulus arteriosus).

Denoyer-Geppert

Jr. High

The Dissectable Human

This is a comprehensive tool that features a complete dissection of an actual human cadaver. Organs can be peeled away or block dissected to show internal structures.

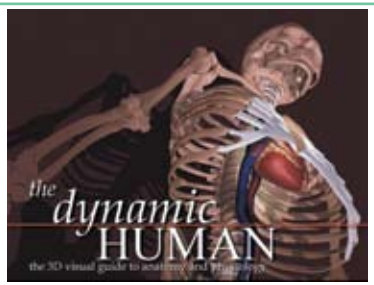


Laser Professor

Sr. High
College / University

The Dynamic Human

This CD-ROM illustrates the complex relationships between anatomical structures and their functions in the human body. The program covers each of the body's systems.



McGraw-Hill

Sr. High
College / University

Exploring the Heart: A 3D Anatomy and Pathology

Sr. High

College / University

This CD teaches the basic anatomy, function, diseases, and disorders of the heart. Topics include: anatomy of the heart, cholesterol buildup, atherosclerosis, hypertension, blood vessel damage, stroke, left ventricular hypertrophy, angina myocardial infarction (heart attack), congestive heart failure, and mitral valve prolapse.

Anatomical Chart Company

Giant Eye with Eyelid and Tear System

Jr. High

Sr. High

College / University

About 5 times its natural size, this 8-part model provides an accurate depiction for studying the anatomy of the human eye. Model features the upper half of the sclera with cornea and eye muscle attachments, both halves of choroid with iris and retina, eye lens, vitreous humour, eyelid, and lachrymal system. Size 20 × 18 × 21 cm.

3B Scientific

Giant Heart with Pericardium and Diaphragm

Jr. High

Sr. High

This large size heart model features 59 labeled parts making it ideal for group study. The heart separates into two parts, making it easy to trace blood flow through the chambers, valves, and vessels. This model comes with an accompanying key which highlights the coronary arteries, circumflex artery, coronary veins and coronary sinus, segments of the esophagus and trachea, lower portion of the pericardium, diaphragm section, flexible tricuspid valve, pulmonary valve, mitral valve, and aortic valve.

Denoyer-Geppert

Great American Heart Model

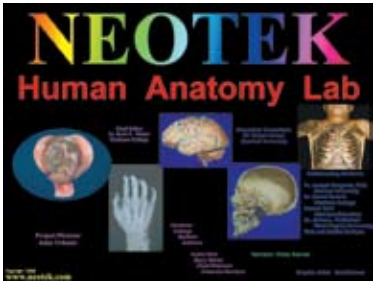
Jr. High

Model shows 63 cardiac structures, permanently number-coded by hand. Comes with a key.

Denoyer-Geppert

Human Anatomy Lab

Using 3D display technology, this CD-ROM provides 250 dissections explained and labeled. It contains a tutorial, lecture, and quiz mode.



Neotek

Sr. High

College / University

Human Eye in Orbit Model

This 10-part model is on a base and is enlarged five times its natural size. It provides an accurate representation of the bony orbit (medial portion) with a removable, dissectible eye. External features include lacrimal gland and removable extra ocular muscles, with attention given to innervation. The eye interior shows vascularization of the retina, vitreous humor, lens, and iris, plus dissection of the optic nerve.

Altay

Jr. High

Sr. High

College / University

Human Heart in Depth

This CD includes 30 gross anatomy dissections for the anatomy and physiology student, who wants the same level of understanding as achieved in the lab.

Neotek

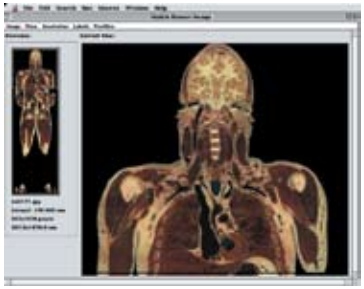
College / University

King-Size Eye Model

Dissectible into 5 parts. Includes a transparent vitreous body and functional lens. Includes a key of 42 labeled parts.

Denoyer-Geppert

Jr. High

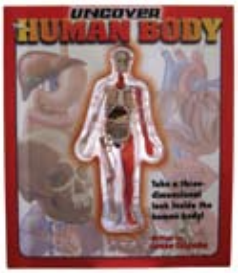


Labeled Visible Human

Based on the Visible Human Project funded by the National Library of Medicine, this CD-ROM includes over 10,000 color photographs, computer tomography, and magnetic resonance images of male and female anatomy. The Visible Human Navigator application displays vivid images in various modalities, orientations, and resolutions, and allows for simple navigation.

Sr. High
College / University

Research Systems



Uncover the Human Body Book/Model

This unique book includes a layered model where students can learn all major body systems and processes as they turn the pages. Interesting facts, attractive illustrations, and diagrams are included.

Elementary
Jr. High

Author: Luann Colombo

VH Dissector Lite

Virtual reality technology allows students to visualize and understand the complexity of the human body. Using data from the National Library of Medicine's Visible Human Project®, this CD offers 3D and cross sectional views of over 2,000 anatomical structures, allowing for interactive identification, dissection, assembly, and rotation. Images can be utilized for student handouts, study guides, quizzing, and testing.

Sr. High
College / University
Med School

Touch of Life Technologies

The Virtual Heart

Combining realistic images with interactive 3D control of dissected and non-dissected hearts, this CD-ROM allows users to view the heart from almost any angle and to retrieve information about any visible structure. Includes digital video of conventional and Doppler ultrasonic scans, saveform tracings, audio of normal and abnormal heart sounds, views of common cardiac pathologies, animation of the cardiac cycle, microscopic images of cardiac tissues, radiographs, and an annotated EKG.

Sr. High
College / University
Vet School
Med School

UC Davis School of Veterinary Medicine

BioLab Fly

Three labs introduce basic Mendelian genetics. Each lab has a pre-lab with three parts: identifying the parents' genotype, building a Punnett square, and predicting the characteristics of the offspring. The user can breed two parent flies to verify the prediction.

Jr. High

Sr. High

Carolina

Drosophila Genetics

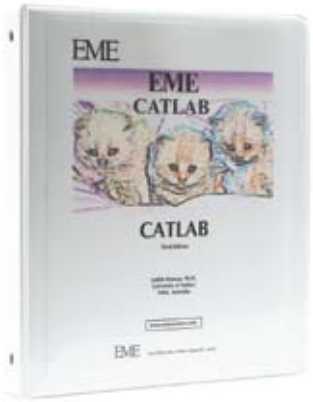
Experiment in five different types of inheritance, including single and double gene, sex-linked and incomplete sex-linked dominance, and linked genes. Features more than 25 mutant genes including a lethal gene and multiple alleles. Students can individually count, categorize, and record each mutant offspring; calculate linkage distances; investigate inheritance of dominant, mutant, and lethal genes; or even create their own mutants that are heterozygous for some genes and homozygous for others. These new mutants can be saved and used again, either as individuals or as pairs, and students can produce unlimited generations and unlimited flies in each generation.

Sr. High

College / University

WARD'S

Genetics CatLab



An introductory genetics simulation on the mating of cats selected by color, pattern, and tail presence. Designed to help students understand the processes of scientific reasoning. Covers the basics of single gene traits: dominant, recessive, incomplete, autosomal, and sex-linked. Features genetic ratios, probability, and the importance of sample size as offspring are generated. Builds skills in planning crosses, predicting outcomes, and interpreting experimental results. Students can formulate genetic models, control variables, test, and revise hypotheses. Phenotypes are displayed with actual cat photos. Includes statistical analysis option and student activities.

Sr. High

College / University

EME Corporation

Critical Care Fluffy

This is a realistic, full-size, feline mannikin with a realistic airway with representations of the trachea, esophagus, epiglottis, tongue, articulated jaw, and working lungs. Fluffy can be used in CPR and anesthesia training and features mouth-to-snout rescue breathing, endotracheal tube placement, manual ventilation, and chest compressions. She features an artificial pulse, and can assist with learning exercises in cat restraint, bandaging, and intravenous access (several vein practice sites). Included are the following accessories: carrying case, artificial training blood, IV reservoir, IV holder, 5 disposable lungs, endotracheal tube, syringe, and grooming brush. Fluffy can be used at colleges, veterinary and medical schools, or veterinary technician schools.

College / University

Vet Tech

Vet School

Med School

Rescue Critters!

Critical Care Jerry

This is a realistic full-size canine mannikin, approximating a 60-70 lb. dog. Featuring an artificial pulse and a realistic airway with representations of the trachea, esophagus, and epiglottis, this mannikin has working lungs and can be used in endotracheal placement, compressions, and mouth-to-snout resuscitation. Jerry also has the ability to aspirate air & fluid from the thoracic cavity to simulate trauma as well as jugular vascular access. Jerry is also designed to perform IV draw and injections. This mannikin can be used to demonstrate splinting and bandaging, and features disposable & cleanable parts. Included with Jerry are the following accessories: carrying case, endotracheal tube, syringe, brush, 5 disposable lungs, IV pole, IV holder, IV reservoir bags, and artificial training blood. Jerry is perfect for use at colleges, veterinary and medical schools, or veterinary technician schools.

NEW Critical Care Jerry with Sawbones

All the features of the original Critical Care Jerry mannikin plus an additional new feature: Sawbones. It includes a long oblique fracture of the right femoral leg bone which offers the opportunity for a student to learn how to set and repair this common canine fracture. The bone is removable and can be replaced with a new one for the next practice session.

Rescue Critters!

- College / University
- Vet Tech
- Vet School
- Med School

Female K-9 Urinary Catheter Mannikin

This mannikin replicates the female dog external and internal urogenital structures relevant to urinary catheterization. It is anatomically correct and enables the learner to practice the complex skill of urinary catheterization using visual or tactile cues. A fluid reservoir (representing the bladder) and a one-way valve (representing the urethral sphincter) allow positive feedback during the training exercises. This mannikin, allows the necessary repetition and the absence of negative consequences so critical to a successful learning experience.

Rescue Critters!

- Vet Tech
- Vet School
- Med School

K-9 Intubation Trainer

This canine mannikin head has realistic interactive capabilities and offer students an opportunity to practice and refine their intubation techniques. Mounted on a base with a realistic airway, this mannikin has a trachea, esophagus, epiglottis, and comes with clinical accessories. To determine correct endotracheal placement, there is a working “lung,” and a pass/fail feature so students can gauge their success.

Rescue Critters!

- Vet Tech
- Vet School
- Med School

Goldie K-9 Breath Heart Simulator Mannikin

This realistic multi-functional canine mannikin offers instructors the capability to select the appropriate scenario for various classroom situations, and features breath and heart sound modules, which add real patient data to the classroom training exercise. Students can auscultate with a stethoscope to hear and identify actual patient sounds which are provided by the plug-in modules. Breath sounds include: broncho-vesicular, cavernous, crackles, monophonic wheeze, pleural friction rub, pulmonary edema, puppy, stridor, tracheal, vesicular, and wheezes. Heart sounds include: atrial fib, mitrial regurgitation, MR murmur, mitral regurgitation, mitral valve click, normal heartbeat, PDA, pulmoic stenosis, respiratory crackles SAS, VPC, and VSD. Goldie also has lights that illuminate during expiration.

Vet Tech
Vet School
Med School

Rescue Critters!

K-9 IV Trainer

This mannikin features a realistic canine forearm and is designed to perform IV draw and injections. K-9 IV Trainer features disposable & cleanable parts and includes an IV pole, IV holder, 2 IV reservoir bags, artificial training blood, and a carrying case. It is for use in veterinary and medical schools and veterinary technician schools.

College / University
Vet School
Med School

Rescue Critters!

Koken Rat

This model contains an anatomically correct pharynx, trachea, stomach, and tail vein. The Koken Rat aids the user in learning techniques of proper holding, peroral feeding, tail vein injection, blood collection, and orotracheal intubations.

College / University
Graduate School

Braintree Scientific

Male & Female Spay and Neutering Mannikins

These mannikins represent 6-month-old male and female puppies, and offer students the ability to learn, perform, and refine the necessary surgical skills required for spaying & neutering companion animals. This mannikin is perfect for veterinary medical education and can be an important part of a shelter medicine curriculum. Essential surgical areas will be replaceable after training.

Paws 2 Claws

- Vet School

PracticeRat

This product was developed as a realistic alternative to the laboratory rat for learning and practicing basic microsurgical techniques. All the procedures normally taught in a basic microsurgical course may be carried out on the PracticeRat.

Brooks/Cole Publishing Company

- College / University
- Graduate School

PVC-Rat

This true-to-life rat model has been developed for students, micro-surgeons, biotechnicians, and other researchers to train basic microsurgical techniques. Twenty-five different operation techniques can be practiced on PVC-Rat, including transplantation of organs such as kidney and heart and button and suture techniques to attach blood vessels to each other.

Carolina

- College / University
- Graduate School

Squeekums Mannikin

This fully articulated and extremely realistic animal training alternative allows students, lab techs, and handlers to learn how to handle a rodent with safety and confidence. Head, feet, and limbs move in a natural manner. Tail is detachable with the capability of IV access at the caudal vein site. Includes hard case, IV accessories, artificial training blood, and instructions.

Microsurgical Developments

- College / University
- Vet Tech
- Vet School
- Med School

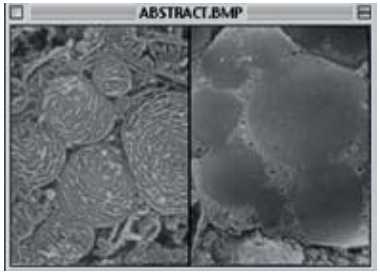
Suture Arm

College / University
Vet School
Med School

This realistic suture trainer arm is ideal for use in veterinary and medical schools and veterinary technician schools. It is made from artificial materials and is designed for both internal and external sutures with an indefinite shelf life.

Rescue Critters!

The Cell is a City 3D

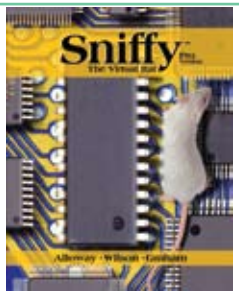


Sr. High
College / University

Using 3D display technology, this interactive CD-ROM contains over 80 narrated and labeled scanning electron microscope (SEM) images divided amongst 12 cellular biology chapters. There is a quiz mode as well.

Duncan Software

Sniffy the Virtual Rat: Pro Version



Sr. High
College / University

This program is designed specifically to teach students about operant conditioning. Sniffy enables students to explore the principle of shaping and partial reinforcement in conditioning a desired response.

Wadsworth/Thompson Learning

cLABs-Neuron

College / University
Vet School
Med School

Demonstrates the interrelations between Ion Channel Dynamics and Membrane Currents and Voltages through computer animations and simulations. CD-ROM Consists of four parts: Membrane Properties, Ion Channels, Voltage-Clamp Experiments, and Compound Action Potentials.

Braintree Scientific

How do students, parents, educators, and doctors feel about alternatives to dissection?

Nancy Harrison, MD | Pathologist
San Diego, CA
"Computerized dissection alternatives have grown so sophisticated they now surpass traditional wet dissections in many ways. No student should be forced to participate in the academically inferior teaching mode of animal dissection. Serious pre-meds and pre-vets can best master the dissection by repeatedly studying the superb images found on CD-ROMs."

Bonnie Berenger | Science Teacher
Hunterdon Central Regional High School, NJ
"Providing students with progressive alternatives to traditional animal dissection, has proven very effective in my classroom. By respecting the ethics of students and offering such options, students seem relaxed and comfortable, and are therefore encouraged to learn. This atmosphere is empowering and stimulating."

Dr. Kathleen T. Brown | Professor and Dept. Head
Dept. of Natural Science Georgia Military College–Augusta Community College, GA
"We have recently abandoned animal specimen dissection in our anatomy and physiology courses in favor of virtual dissection. The student response to this decision has been extremely favorable and the faculty are impressed with the versatility and thoroughness of these products. We are very glad to have made this decision and believe it is a most worthwhile investment that is already enhancing our program."

Genevieve Stark | Student–Science Bank Borrower
Holy Cross Catholic School, KS
"I learned just as much, if not more, from the alternatives. Plus I received an A for a grade."

Mark Davis | Student–Science Bank Borrower
Hudson Valley Community College, NY
"When an internet site sent me to Animalearn, I felt ecstatic and relieved. My professor, who was initially skeptical about alternatives, was totally impressed with the dissection programs, and I scored a 10/10 on the rat dissection quiz the following week."

The items borrowed will not be duplicated in any way or kept longer than the indicated time.

The items borrowed are to be used in the fashion which they are intended and will not be removed from the premises without written consent of Animalearn.

The borrowed items are to be returned in two weeks, unless otherwise specified, in the original condition in which they were received. Any damage resulting from the use of these products will be my responsibility to replace/pay for repair.

To ensure financial responsibility, I allow Animalearn to hold a credit card number or purchase order number for the time in which the item is borrowed.

If the product is desired to be used as a permanent tool, the company that manufactures the product should be contacted for purchase. Company names, addresses, and numbers are available through Animalearn.

All items in The Science Bank are the property of Animalearn and are not for sale.

❑ I, _____ agree to the provisions stated above and agree to use the following borrowed items strictly as products on loan.

Requested Item(s)

_____

_____

_____

_____

_____

Operating System (if applicable) ❑ MAC : OS____ ❑ Windows____

❑ Visa ❑ MasterCard (please choose one)

Credit Card Number: _____-_____-_____-_____

Expiration Date (month/year): _____/_____

Signature: _____

or ❑ I have enclosed a purchase order number.

Preferred borrow date: _____/_____/_____

Preferred return by date: _____/_____/_____

Name: _____

Address:_____

_____

Phone Number: (_____)_____ E-mail: _____

I would like to make a donation to **The Science Bank**, please bill my credit card:

❑ $10 ❑ $20 ❑ $50 ❑ $100 ❑ Other $_____

Please be aware that all products are available on a first come, first serve basis, so be sure to send in your agreement at least two weeks ahead of time. Call Animalearn with rush requests or questions, otherwise allow one week from receipt of this agreement for delivery.

All orders require this form to be either faxed or mailed to Animalearn.

Animalearn
801 Old York Road, Suite 204
Jenkintown, PA 19046

Phone: 800-729-2287
Fax: 215-887-2088
E-mail: info@animalearn.org
Online: www.TheScienceBank.org

Animalearn
Animals, Ethics, and Education

the SCIENCE BANK
alternatives to animal use in education

Animalearn
Animals, Ethics, and Education

801 Old York Road, Suite 204, Jenkintown, PA 19046
800-729-2287 . www.TheScienceBank.org . info@animalearn.org