THE LARGEST LENDING LIBRARY OF HUMANE SCIENCE PRODUCTS IN THE U.S.
The Science Bank is a 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 has offered 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 do not see something that you need.

In addition to developing and maintaining the Science Bank, Animalearn conducts free workshops for educators on how to implement our various programs and products in classrooms. We also deliver presentations to students and student organizations hoping to use or promote non-animal alternatives in their education. Animalearn frequently delivers presentations to classrooms, which serve to foster an awareness of and a respect for animals and others.
# Table of Contents

- Cat ................................................. 1
- Chicken ........................................... 3
- Crayfish .......................................... 4
- Dog .................................................. 5
- Earthworm ....................................... 8
- Fetal Pig ......................................... 10
- Frog ............................................... 12
- Horse ............................................. 16
- Human ............................................ 17
- Insect .............................................. 19
- Mollusc ........................................... 21
- Perch .............................................. 22
- Pigeon ............................................ 24
- Rat ................................................... 25
- Shark ............................................. 27
- Starfish .......................................... 28
- Other Animals ................................. 29
- Loan Agreement .............................. 31
- Loan Request Form ......................... 32
- Frequently-Asked Questions .......... 33

# Education Levels

- **P** Pre-Kindergarten
- **E** Elementary School
- **J** Junior High School
- **S** Senior High School
- **C** College/University
- **G** Graduate School
- **V** Veterinary School
- **T** Veterinary Technician Training
- **M** Medical School

- ![Computer Software](image)
- ![Online Subscription](image)
- ![DVD Video](image)
- ![VHS Video Tape](image)
- ![Chart or Poster](image)
- ![Model or Manikin](image)
CAT ALTERNATIVES

Altay Cat Dissection Model
PRODUCT CODE: ACM
Shows the internal anatomy and superficial musculature of a pregnant cat specimen. Nine-part model – significant structures are shown, numbered and referred in the key. Sturdy plastic construction. Mounted on a base. Hand painted with nontoxic colors.

Common House Cat Skull
PRODUCT CODE: BCCS
Made from artificial materials, this model of a domesticated cat skull provides the student with an intricate look into the anatomical structure of this companion animal.

Anatomy of the Cat
PRODUCT CODE: CACD
This film features an in-depth look at cat anatomy. All major organ systems are examined. Running time 90 minutes.

Comparative Anatomy
PRODUCT CODE: UCDCCA
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.

Cat Spay Mannikin
PRODUCT CODE: P2CCSM
The Cat Spay mannikin is designed to be used as a hands on training aid in learning the surgical procedures and techniques of spaying and final sutures. This mannikin has simulations of organs including a urinary bladder, uterine horns, ovaries and simulated blood.

CatLab
PRODUCT CODE: CAL
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.

CatScans
PRODUCT CODE: CAS
This CD-ROM gives a comprehensive overview of 9 organ systems of cat anatomy. Features 45 detailed photos for anatomy, physiology, or comparative anatomy. Each system includes multiple review and testing options. Teachers can choose which terms the student should know. Photos of cat heart, brain, kidneys, and eyes are included.

Concise Dissection Chart
PRODUCT CODE: CC
This chart uses high quality photography to depict the complete dissection of a cat.

ITG CatLab CD-ROM
PRODUCT CODE: CL
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.
Critical Care Fluffy
PRODUCT CODE: RCF
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.

BioLab Cat
PRODUCT CODE: BLC
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.

Anatomy and Physiology REVEALED®: Cat
PRODUCT CODE: APC
This state-of-the-art program uses cat photos combined with a layering technique that allows the student to peer away layers of the cat to reveal structures beneath the surface. Anatomy & Physiology Revealed Cat also provides animations, histologic and radiologic imaging, audio pronunciations, and comprehensive quizzing. APR Cat features quality animations to explain key physiological processes, demonstrate muscle actions and joint movements, or clarify anatomical relationships.

CatWorks
PRODUCT CODE: CW
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.

Cat Dissection Video
PRODUCT CODE: WCV
This video comes with a teacher’s manual and goes through a cat dissection using the most up-to-date equipment and techniques. Features close-up photography as well as a narrative that follows most basic laboratory manuals.

The Dissection Video Series: Cat
PRODUCT CODE: BC
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.

Pregnant Cat Model
PRODUCT CODE: WPCM
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.
CHICKEN ALTERNATIVES

Chick Development CD-Rom
PRODUCT CODE: CD
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.

Virtual Chicken
PRODUCT CODE: VC
Virtual Chicken is an 3-D animation of the reproductive system of a hen, showing the formation of an egg as it passes through the oviduct. Viewers will see and explore the oviduct and follow the path of the egg.

Altay Hen Dissection Model
PRODUCT CODE: AHM
Divided into eight parts, this life-size model displays the anatomy of the hen in great detail, enabling students to obtain a close and intricate look at its body and functions. The right side enables for the study of its external morphology. The parts can be removed for a further look at the inner structures, which are longitudinally sectioned and include the following: heart, liver, muscles, intestine, stomach, lungs, reproductive system and an egg. The model is mounted on a stand and includes a key card that identifies 39 structures.

Chicken Embryology Poster
PRODUCT CODE: CEP
This 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.

Chick Life Cycle Exploration Set
PRODUCT CODE: CLC
Great way to teach the chick life cycle without the fuss of an incubator! This hands-on realistic set of 21 eggs gives students the opportunity to see the day-by-day development of a chick. The model features precise illustrations of a developing chick in eggs 1-20, and includes a plastic 3D chick inside the final egg! This life cycle set comes with multilingual activity guide that includes definitions, chicken facts and a blackline master for labeling. The kit includes durable plastic eggs which measure 2.75”L each; plastic tray measures 15”L x 8.5”W. Grades K+.
CRAYFISH ALTERNATIVES

DissectionWorks
Product Code: DW
DissectionWorks is a highly interactive computer simulation of various animal dissections including the frog, earthworm, crayfish, perch and fetal pig.

Concise Dissection Chart: Crayfish
Product Code: CCR
This chart uses high quality photography to depict the complete dissection of a crayfish.

Drylab Plus Crayfish
Product Code: DLC
This 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.

The Dissection Video Series: Crayfish
Product Code: BCRV
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.

Laboratory Dissection Video Series: Crayfish
Product Code: EICRV
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.

Model Activity Set: Crayfish
Product Code: CRMAS
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.

Anatomy of the Crayfish
Product Code: CACR
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.

BioLab Invertebrate
Product Code: BLI
This software allows students the ability to perform informative dissections on four different organisms: the squid, earthworm, crayfish, and sea star. The software also allows the student to survey invertebrates as different as the simple purple sponge and the well developed octopus. The software is designed to encourage comparative investigation of the digestive, respiratory, reductive, nervous, circulatory, skeletal, and excretory systems of the four featured organism.
**Goldie K-9 Breath Heart Simulator Mannikin**

PRODUCT CODE: RCG

His 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, cracks, monophonic wheeze, pleural friction rub, pulmonary edema, puppy, stridor, tracheal, vesicular, and wheezes. Heart sounds include: atrial fib, mitral regurgitation, MR murmur, mitral regurgitation, mitral valve click, normal heartbeat, PDA, pulmonic stenosis, respiratory cracks SAS, VPC, and VSD. Goldie also has lights that illuminate during expiration.

**Critical Care Jerry with Sawbones**

PRODUCT CODE: RCJS

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.

---

**Suture Limb**

PRODUCT CODE: P2CSL

The Suture Limb is a great tool to learn or practice sutures on. One side includes a representation of a canine elbow bone.

**Suture Leg Trainer**

PRODUCT CODE: RCST

This suture trainer is made from a variety of artificial materials and can be used for countless suture exercises. Muscle striations, outer dermis, adipose tissue are faithfully re-created, so that internal and external sutures can be practiced.

**Canine Osteology**

PRODUCT CODE: CO

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.

**Critical Care Jerry**

PRODUCT CODE: RCJ

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.
Female K-9 Urinary Catheter Mannikin
**PRODUCT CODE: RCUCM**
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.

K-9 Intubation Trainer
**PRODUCT CODE: RCIT**
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.

Canine Ovariohysterectomy (Spay) Model
**PRODUCT CODE: RCOSM**
This canine ovariohysterectomy (spay) model features a realistic female reproductive organ, including the region of cervix, uterine body, uterine horns, ovaries, ovarian arteries and veins, suspensory ligaments and membrane for realism. Also embedded in the model are the bladder and ureters and colon. The model also helps trainees practice their suturing skills on the abdominal wall musculature and skin layers upon completion of the ovariohysterectomy procedure. Includes one canine ovariohysterectomy model and acrylic holder.

Louie K9 Tracheostomy Model
**PRODUCT CODE: RCTM**
Performing an upper airway obstruction or tracheostomy is vital to the survival of K9s, which is why this lifelike model was developed. Cricothyrotomy may also be performed on the model. Incisions can be made to the skin layers, the cricothyroid membrane and between the tracheal rings. Louie comes with three sets of replaceable tracheas and skins and one artificial lung. Incisions and sutures can be made on the skins and trachea.

Male & Female Spay and Neuter Mannikins
**PRODUCT CODE: P2CSM**
These mannikins offer students the ability to learn, perform, and refine the necessary surgical skills required for spaying & neutering companion canines. 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.

K-9 Pulse Trainer
**PRODUCT CODE: RCPT**
This K-9 Pulse training leg has a working artificial pulse and built to splint so that bandaging can be performed.

K-9 IV Trainer
**PRODUCT CODE: RCIV**
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.

Canine Orchiectomy (Neuter) Model
**PRODUCT CODE: RCNM**
This canine orchiectomy (neuter) model features realistic testes and testicular epididymus along with the testicular blood vessels and spermatic ducts that need to be removed during the procedure. The tunica vaginalis is also present. This set comes with one orchiectomy model and acrylic holder.
Comparative Anatomy  
**Product Code:** UCDCA

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.

The Virtual Heart  
**Product Code:** UCDVH

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.

The Glass Dog  
**Product Code:** GDTA

This exciting new program presents the dog’s thorax and abdomen. The program includes 10 cutting edge animated movies, nearly 50 interactive models and more than 250 detailed images, each with its own recorded narrative.

CeePeR Jr. for Kids  
**Product Code:** RCCPR

This cuddly canine named CeePeR Jr. is an excellent training tool for kids to learn how to rescue their pets in an emergency. Kids will learn how to properly apply rescue breathing (mouth-to-snout) techniques - properly blow into Jr.’s nose and if performed correctly, kids will be rewarded by watching the lungs rise. Kids will also be able to practice performing CPR (chest compressions) techniques, and abdominal thrusts in the event of a choking pet. These will help them stay calm in real life situations, increasing the chances of a pet’s survival before they are taken to the veterinarian. CeePeR Jr. comes with two face shields and a carrying tote. Recommended for kids ages 8 years and above.

Pit Bull Dog Skull  
**Product Code:** BCPBS

Made from artificial materials, and measuring 9 inches long, 6 inches wide, and 4 1/2 inches 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.

Uncover a Dog Book/Model  
**Product Code:** UDB

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
EARTHWORM ALTERNATIVES

BioLab Invertebrate

This software allows students the ability to perform informative dissections on four different organisms: the squid, earthworm, crayfish, and sea star. The software also allows the student to survey invertebrates as different as the simple purple sponge and the well developed octopus. The software is designed to encourage comparative investigation of the digestive, respiratory, reductive, nervous, circulatory, skeletal, and excretory systems of the four featured organism.

DissectionWorks

DissectionWorks is a highly interactive computer simulation of various animal dissections including the frog, earthworm, crayfish, perch and fetal pig.

Model Activity Set: Earthworm

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

Concise Dissection Chart: Earthworm

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

SOMSO Earthworm Model

Enlarged 25X and colorfully illustrated, the comprehensive model can be taken apart for an even closer view of earthworm structure. It features a sectioned and dissected anterior to the clitellum to clearly show the septa, coelom, nephridia, aortic arches or ‘hearts’, and even the setae. The intestine is removable for a better view of the stomach, and the reproductive organs are removable to show the sperm ducts. The three-part model is mounted on a stand and can be removed for closer study. It also includes a study guide identifying 41 structures. Size: 21"L x 10"W x 5 1/2"H.

Dissection & Anatomy of the Earthworm

This VHS tape is an ideal teaching tool to help introduce earthworm anatomy. The video is 10:06 minutes in length and comes in a protective plastic storage case.

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.
Bobbitt Earthworm Model  
**Product Code:** BEM  
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.

Eisco Model Earthworm Dissection  
**Product Code:** EM  
This extra large model of an earthworm (Lumbricina) is a great way to study Annelids. Part shows the external structure, while the other end is dissected to show internal organs. Highlights structures of digestive, circulatory and reproductive systems. Included key card with 52 call outs. Mounted on a base, model is 22” L x 12”W x 5.5 H

Kid Science: Worm Dissection DVD  
**Product Code:** KSED  
This interactive DVD offers a brand new way to study the earthworm. It also gives students the opportunity to follow a step-by-step video instruction. It includes detailed descriptions with video of the external anatomy and major internal organs of an earthworm and highlights significant terms and basic dissection techniques. This DVD is compatible with all NTSC players. Ages 9 and up. Runtime: 21 minutes

Laboratory Dissection Video Series: Earthworm  
**Product Code:** EIEV  
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.

Anatomy of the Earthworm  
**Product Code:** CAE  
Highlights the functional anatomy of the earthworm. Running time 30 minutes.

The Dissection Video Series: Earthworm  
**Product Code:** BEV  
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.
FETAL PIG ALTERNATIVES

Model Activity Set: Fetal Pig  
**Product Code:** FPMAS

Affordable, vacuum-formed, plaque-style model of a fetal pig. The model is shown in raised relief and clearly illustrates the internal structures of the fetal pig, particularly a dissected portion of the abdominal and thoracic organs. Includes an activity notebook with glossary, key, blackline master and two color transparency.

DissectionWorks  
**Product Code:** DW

DissectionWorks is a highly interactive computer simulation of various animal dissections including the frog, earthworm, crayfish, perch and fetal pig.

Laboratory Dissection Video Series: Fetal Pig  
**Product Code:** EIFPV

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.

Anatomy of the Fetal Pig  
**Product Code:** CAFP

This DVD/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.

Drylab Plus Fetal Pig  
**Product Code:** DLFP

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.

Bobbitt Fetal Pig Model  
**Product Code:** BFPM

This model is 2x actual size of a fetal pig specimen and is secured on a sturdy base. Comes with a separate piece, which depicts the internal organs (heart, lungs, stomach, liver, and intestines) along with the basic pattern of the blood supply.
Fetal Pig Model
PRODUCT CODE: WFPM
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.

Concise Dissection Chart: Fetal Pig
PRODUCT CODE: CFP
This 8 1/2" x 11" chart uses high quality photography to depict the complete dissection of a fetal pig.

Anatomy and Physiology REVEALED®: Fetal Pig
PRODUCT CODE: APFP
Anatomy & Physiology Revealed Pig uses pig photos combined with a layering technique that allows the student to peel away layers of the pig to reveal structures beneath the surface. Anatomy & Physiology Revealed Pig also offers animations, histologic and radiologic imaging, audio pronunciations, and comprehensive quizzing. It can be used as part of any anatomy & physiology or human anatomy course; Anatomy & Physiology Revealed Pig is available stand-alone, or can be combined with any McGraw-Hill book.

BioLab Pig
PRODUCT CODE: BLP
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.

The Dissection Video Series: Fetal Pig
PRODUCT CODE: BPV
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.

Dissection & Anatomy of the Fetal Pig
PRODUCT CODE: WPV
This VHS tape is a wonderful teaching tool to help introduce students to the anatomy of the fetal pig. The video is 25:26 minutes in length and comes in a protective plastic storage case.

Altay Fetal Pig Dissection Model
PRODUCT CODE: AFPM
Shows the internal anatomy and superficial musculature of a fetal pig specimen. 10-part model - significant structures are shown, numbered and referred to in the key. Mounted on a base. Sturdy plastic construction. Hand painted with nontoxic colors. Dimensions: 15.4 x 21 x 7 in. (39.5 x 53.5 x 18cm)

BioLab Pig
PRODUCT CODE: BLP
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.
Altay Frog Dissection Model
PRODUCT CODE: AFM
This frog model is about 2-1/2x actual size and comes mounted on a stand that is removable. It is sectioned ventrally with 4 removable parts. The thoracic and abdominal structures are shown with great clarity and detail. Comes with numbered key.

Anatomy of the Frog
PRODUCT CODE: CAF
This film features an in-depth look at frog anatomy. All major organ systems are examined. Running time is 45 minutes.

DissectionWorks
PRODUCT CODE: DW
DissectionWorks is a highly interactive computer simulation of various animal dissections including the frog, earthworm, crayfish, perch and fetal pig.

Frog Development Poster
PRODUCT CODE: FDP
This is a 21" x 34" poster with color photos detailing the many stages of frog development, from egg to tadpole to frog.

Bobbitt Frog Model
PRODUCT CODE: BFM
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.

BioLab Frog
PRODUCT CODE: BLFR
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.

Concise Dissection Chart: Frog
PRODUCT CODE: CDF
This 8 1/2" x 11" chart uses high quality photography to depict the complete dissection of a frog.

Drylab Plus Frog
PRODUCT CODE: DLPF
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.
Lifecycle of a Frog

Product code: LCF

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.

Great American Bullfrog Model

Product code: GAB

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.

Simulated Frog Dissection Kit

Product code: FDK

This simulated frog dissection offers a realistic experience without harming animals. The kit has removable, soft texture tissue which can fold back to display a complete set of life-like organs, including liver, heart, kidneys, intestines, fat bodies, stomach and bladder. A cross section shows intricate muscle structure, and a ruler is built into the dissecting tray, allowing the student or teacher to measure the size of the various parts. Includes X-ray film, dissecting tray, safe-tools (scalpel, tweezers and prod), and magnifying glass.

ProDissector Frog

Product code: PDF

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.

The Dissection Video Series: Frog

Product code: BFV

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.

Frog Life Cycle Puppet

Product code: FLCP

This plush frog puppet turns inside out to show how it transforms from a tadpole to a full-grown frog. This puppet is about 7 inches long and is perfect for life cycle studies or story time.

Model Activity Set: Frog

Product code: MASF

The model is shown in raised relief, clearly illustrating the internal structures of the frog. It presents dissected dorsal and ventral views. In the abdomen, female reproductive organs are shown on the left and male anatomy is shown on the right. Separate inset shows the structure of the three-chambered heart. Includes: Activity notebook with glossary, key, blackline master and color transparency.
Inflatable Frog Life Cycle

**Product Code:** IFLC

The 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.

Frog Flip Chart

**Product Code:** FFC

Great alternative to frog dissection! Use this highly detailed flip chart to study internal and external frog anatomy, as well as the muscular/skeletal, circulatory, digestive and nervous systems. Includes 5 pages of full-color 3D images to represent each system. Offers additional support through corresponding double-sided write & wipe pages packed with anatomy information, frog facts, cross-sections and unlabeled areas for self assessment. Spiral-bound tabletop easel measures 12in L x 1.5in W x 16in H. Grades 3+

**Digital Frog 2.5**

**Product Code:** DF

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.

**Frog Life Cycle Stages Set**

**Product Code:** FLCSS

These unbelievably realistic figures portray how bullfrogs grow and change. The set includes 4 stages of the frog, including the egg, tadpole, frog with tail, and adult bullfrog. Grade K+.

**Laboratory Dissection Video Series: Frog**

**Product Code:** LDVF

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.

**SimMuscle (Frog)**

**Product Code:** SMF

Interactive CD-ROM simulates classic experiments on the physiology of striated muscle in the leg of the frog. The program is divided into three sections: Wetlab, 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.

**SimNerv (Frog)**

**Product Code:** SNF

Interactive CD-ROM simulates classic experiments on the sciatic nerve of the frog. The program is divided into three sections: Wetlab, 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.

**4D Vision Frog Anatomy Model**

**Product Code:** 4DF

This 6" long 4D Frog model contains 31 detachable organs and body parts. Remove the frog’s bones and organs and replace them as you learn the physical anatomy of the frog. Comes with display platform. Also includes Illustrated assembly guide and description of the anatomy along with some fun Q and A to test your knowledge.

**See Through Frog Model**

**Product Code:** STFM

Clear plastic frog model comes with actual placement of organs inside. There are ten organs depicted including the tongue, central nervous system, heart, lungs, stomach, small intestine, large intestine, adrenal body, fat body, and bladder. There is a flap on the back that allows the viewer to see the organs up close. The model can be taken apart to see the organs in their typical placement in a real frog. Comes with a key. Size: 5in L x 5in W x 2 in H.

**Laboratory Dissection Video Series: Frog**

**Product Code:** LdVF

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.
Cross Section Frog Model

**PRODUCT CODE:** CSFM

Explore this life-size frog to study all the main anatomical organs. This realistic durable foam frog model offers an engaging alternative to actual frog dissection. This model provides hands-on learning for life science and anatomy studies, as well as life cycle units. Comes with activity guide, which includes frog facts.

Uncover the Frog Book/Model

**PRODUCT CODE:** UFB

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

Frog Model (P2C)

**PRODUCT CODE:** P2CFM

This 3D model has some of the organs enlarged to provide a better visibility showing with exceptional detail the thoracic and abdominal structure of the frog.

Realistic Frog Model (Female or Male)

**PRODUCT CODE:** RFF or RFM

This life-size female frog model offers incredible detail and realism. Cast from an actual specimen, this model features over 50 colorful details from the circulatory, musculatory, digestive and reproductive systems. Even the structures of the inner mouth are visible. The model is made of flexible and durable material. It also includes a key identifying 45 structures. Specify female, male, or both when borrowing.

Kid Science: Frog Dissection DVD

**PRODUCT CODE:** KSFD

Interested in learning everything about frogs? This interactive DVD offers a new way to study how a frog’s body works, including detailed descriptions with video of the external anatomy and major internal organs. This educational DVD also points out important terms and basic dissection techniques, and comes with a guide about dissection tools and how to care for them and use them safely. Format: Color, full-frame, stereo sound. Running Time 16 minutes.

Dissection & Anatomy of the Frog

**PRODUCT CODE:** WFV

Video comes with a teacher’s manual and leads students through every step. Features close-up photography as well as a narrative that follows most basic laboratory manuals. Contains helpful graphics and pointers which make it easier for students to identify anatomical structures, even those that may be difficult to locate in a real specimen.
HORSE ALTERNATIVES

The Glass Horse: Equine Distal Limb
**Product Code: GHEDL**
An engaging interactive exploration of the equine distal limb that combines interactive models with informative narrations and highly detailed animations. The interface allows manipulation of anatomical models in three dimensions.

The Glass Horse: Equine Colic
**Product Code: GHEC**
A comprehensive exploration of the equine abdominal anatomy, the veterinarian’s approach to diagnosis, and detailed 3-D animations depicting more than 25 different diseases. Interactivity and self-assessment features are strong components of this program.

Anatomy of the Horse Poster
**Product Code: AHP**
This poster developed by human anatomist Dr. Paul McMenamin, Dr. Ken Richardson, and artist Steve Makse provides an easy reference guide to the hidden and complex anatomy of the equine musculoskeletal system. Each diagram is labeled in careful and accurate detail, and commonly used names are added in brackets so that the chart is suitable for the horse person as well as the practitioner.

Equine Osteology
**Product Code: EO**
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.

4D Vision Horse Anatomy Model
**Product Code: 4DH**
This exceptionally detailed, 7” model contains 25 detachable, hand-painted organs and parts and a display stand. Also includes illustrated assembly guide, a description of the anatomy, a detailed description of a horse’s life cycle, eating habits and size along with some fun Q&A to test your knowledge.

Uncover a Horse Book/Model
**Product Code: UHB**
"Uncover a Horse," the latest in the popular "Uncover It" series, features all there is to know about horses, from their thundering hooves to their windswept tails. The book is designed so that a unique "model" can be built and deconstructed, one layer at a time, by simply turning the page. Packed with detailed illustrations, fact boxes, and more. Author: David George Gordon

800.729.2287 the Science Bank - 16
Anatomy of the Brain Poster

**Product Code:** DGABP

Full color chart illustrates the anatomy of the brain in detail. Comes with metal grommets for hanging. Flexible lamination lets you write on-wipe off using dry erase markers (markers not included).

---

Exploring the Heart: A 3D Anatomy and Pathology

**Product Code:** EH

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.

---

Anatomy & Physiology REVEALED® 3.0

**Product Code:** APR3

McGraw-Hill presents Anatomy & Physiology REVEALED®, a state-of-the-art online interactive cadaver dissection experience, now fully customizable to fit any course or lab. This program uses cadaver photos combined with a layering technique that allows the student to peel away layers of the human body to reveal structures beneath the surface. Anatomy & Physiology REVEALED® also offers animations, histologic and radiologic imaging, audio pronunciations, and comprehensive quizzing.

---

Anatomy of the Ear Poster

**Product Code:** DGAERP

Full color chart illustrates the anatomy of the ear in detail. Comes with metal grommets for hanging. Flexible lamination lets you write on-wipe off using dry erase markers (markers not included).

---

Uncover the Human Body Book/Model

**Product Code:** UHBB

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.

---

Human Brain Model

**Product Code:** BM

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.

---

Pumping Heart Model

**Product Code:** PHM

Multi-sensory model uses a simple hand pump to demonstrate basic heart and pulmonary blood flow.

---

Human Eye in Orbit Model

**Product Code:** AHEM

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.

---

Deluxe Life-Size Human Brain Model

**Product Code:** DB

This model incorporates the arterial blood supply complete with termini of the internal carotids basilar artery and circle of Willis (circulus arteriosus).
Anatomy of the Heart Poster
**Product Code:** DGAEP
Full color chart illustrates the anatomy of the heart in detail. Comes with metal grommets for hanging. Flexible lamination lets you write on-wipe off using dry erase markers (markers not included).

Model Activity Set: Human Eye
**Product Code:** HEMAS
This eye activity set represents the human eye with a three piece anatomical model including the body of the eye, the lens and a transparent cover which represents the cornea, venation and sclera. A diagram is included to illustrate the structures of the retina. School biology students will find this an invaluable activity set on the human eye when studying the subject.

Giant Eye with Eyelid and Tear System
**Product Code:** GEM
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.

Anatomy of the Eye Poster
**Product Code:** DGAEP
Full color chart illustrates the anatomy of the eye in detail. Comes with metal grommets for hanging. Flexible lamination lets you write on-wipe off using dry erase markers (markers not included).

King-Size Eye Model
**Product Code:** KEM
Dissectible into 5 parts. Includes a transparent vitreous body and functional lens. Includes a key of 42 labeled parts.

Giant Heart with Pericardium and Diaphragm
**Product Code:** GHM
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.

VH Dissector Lite v.4.7.4
**Product Code:** VHDL
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.

The Dynamic Human 2.0
**Product Code:** DH2
The Dynamic Human Version 2.0 CD-Rom interactively illustrates the complex relationships between anatomical structures and their functions in the human body. Dynamic 3-D animations and visuals are the premier feature of this exciting learning tool. This interactive program covers each body system by demonstrating to the viewer the anatomy, physiology, histology, and clinical applications of each.

Great American Heart Model
**Product Code:** GAH
Model shows 63 cardiac structures, permanently number-coded by hand. Comes with a key.
**INSECT ALTERNATIVES**

**Drosophila Life Cycle Poster**
**Product Code:** DLCP

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.

**Butterfly Life Cycle Puppet**
**Product Code:** BLCP

This plush butterfly puppet turns inside out to show how it transforms from a caterpillar to a beautiful painted lady butterfly. This puppet is about 7” long and is perfect for life cycle studies or story time.

**Butterfly Life Cycle Stages Set**
**Product Code:** BLCSS

These beautifully designed painted lady life cycle figures are an ideal educational accessory to any butterfly unit. The accurately detailed egg, larva, chrysalis, and adult butterfly are larger-than-life size.

**Model Activity Set: Grasshopper**
**Product Code:** GMAS

This three-dimensional model of a grasshopper features a cutaway section of its internal organs, plus an inset that shows the grasshopper’s mouth parts.

**Inflatable Butterfly Life Cycle**
**Product Code:** IBLC

This fascinating life cycle of the butterfly will help teach kids to appreciate science and nature. The model comes with four huge colorful and realistic inflatables, which depict the egg, caterpillar, cocoon and butterfly stages. Includes an activity guide. Ages 5-9.

**Lifecycle of a Butterfly**
**Product Code:** LCB

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.

**Concise Dissection Chart: Grasshopper**
**Product Code:** CCG

An 8 1/2” x 11” chart uses high-quality photography to depict the complete dissection of the grasshopper.
Butterfly Life Cycle Poster
PRODUCT CODE: PLLC
This poster shows the life cycle of the painted lady butterfly. Size: 24" × 36"

Grasshopper Model
PRODUCT CODE: BGM
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.

Laboratory Dissection Video Series:
Grasshopper
PRODUCT CODE: EIGV
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.

Anatomy of the Grasshopper
PRODUCT CODE: CAG
This video/DVD studies the anatomy of a grasshopper as a representative arthropod and insect. Each individual system can be viewed and studied separately.

Cockroach Model
PRODUCT CODE: ECM
Enlarged dissection showing all internal parts of the cockroach. On base. Numbered with key card. Size 45 x 20 x 8 cm approx.

BioLab Fly
PRODUCT CODE: BLFY
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.
MOLLUSC ALTERNATIVES

Bobbitt Clam Model
PRODUCT CODE: BCM
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.

Concise Dissection Chart: Clam
PRODUCT CODE: CCM
An 8 1/2" x 11" chart uses high quality photography to depict the complete dissection of a clam.

Laboratory Dissection Video Series: Clam
PRODUCT CODE: EICV
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.

Anatomy of the Freshwater Mussel
PRODUCT CODE: CAM
This video/DVD 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.

Model Activity Set: Clam
PRODUCT CODE: CMAS
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.

Laboratory Dissection Video Series: Clam
PRODUCT CODE: EICV
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.

Anatomy of the Freshwater Mussel
PRODUCT CODE: CAM
This video/DVD 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.

Model Activity Set: Clam
PRODUCT CODE: CMAS
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.
Perch Model
**Product Code:** WPM

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.

BioLab Fish
**Product Code:** BLF

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.

Concise Dissection Chart: Perch
**Product Code:** CP

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

Comparative Anatomy
**Product Code:** UCDCA

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.

DissectionWorks
**Product Code:** DW

DissectionWorks is a highly interactive computer simulation of various animal dissections including the frog, earthworm, crayfish, perch and fetal pig.

Altay Fish Dissection Model
**Product Code:** APM

This life size fish model mounted on a base is a longitudinal dissection of a bony fish. It comes in 5 parts and provides excellent views of the internal and external anatomy of the fish. The removable parts are secured in position with magnets and includes a numbered key of 24 identified structures.
Model Activity Set: Perch  
**PRODUCT CODE: PMAS**

Shows the typical bony fish anatomy of a perch with this plaque-style, vacuum-formed model. This graphic, three-dimensional model features all organ systems, complete skeletal system and the special adaptations of aquatic vertebrates for exchanging oxygen and carbon dioxide. Two inset diagrams show the gas exchange in the gills.

Laboratory Dissection Video Series: Perch  
**PRODUCT CODE: EIPV**

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.

DryLab Plus Perch  
**PRODUCT CODE: DLP**

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.

Anatomy of the Perch  
**PRODUCT CODE: CAPV**

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

Bobbitt Perch Model  
**PRODUCT CODE: BPM**

This realistic model of the perch depicts internal organs, which are displayed in a spread dissection. A portion of the skull is removed to show semicircular canals as well as the brain. Comes with its own manual.
Eisco Model Pigeon Dissection
**Product Code:** EPM

Natural size dissection showing all the internal organs of a pigeon. Mounted on a base. Comes with a key.

---

Comparative Anatomy
**Product Code:** UCDCA

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.

---

Vertebrate Dissection Guide: The Pigeon
**Product Code:** PVDG

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.
RAT ALTERNATIVES

Altay Rat Dissection Model (Male and Female)

Product Code: ARM

This life size model mounted in supine position portrays an adult rat with interchangeable male and female reproductive systems. The model can be removed from base for closer examination and the organs are detachable in 4 pieces. Includes numbered key.

PVC Rat

Product Code: PVCR

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.

Vertebrate Dissection Guide: The Rat

Product Code: RVDG

This 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 skeleton.

Realistic Rat Model

Product Code: RRM

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.

Concise Dissection Chart: Rat

Product Code: CR

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

Squeekums Rat

Product Code: RCSM

This fully articulated and extremely realistic animal training mannikin 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.

Koken Rat

Product Code: KR

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.

PracticeRat

Product Code: PR

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.
Sniffy the Virtual Rat: Lite Version 3.0  
**PRODUCT CODE: SVR**

Bring the theories of learning to life using SNIFFY, THE VIRTUAL RAT! Instructors praise Sniffy, a realistic digital rat in an operant chamber (Skinner Box), for his ability to give students hands-on experience in setting up and conducting experiments that demonstrate the phenomena of classical and operant conditioning. Users begin by training Sniffy to press a bar to obtain food. Then, they progress to studies of more complex learning phenomena. Throughout each, a series of “Mind Windows” enables students to visualize how Sniffy’s experiences in the chamber produce the psychological changes that their textbooks discuss in connection with learning. Available on a cross-platform CD-ROM, the Lite version of Sniffy includes 23 exercises that cover the essential phenomena of learning psychology—making it equally appropriate for psychology of learning and introductory psychology courses. The CD-ROM comes with a Lab Manual that walks users through the steps necessary to set up classical and operant conditioning experiments that closely resemble the experiments discussed in learning texts. (Screen shots are included for both Macintosh and Windows users.) The manual also includes instructions on how to print or e-mail results, so that Sniffy can become part of students’ homework assignments and term papers.

Mimolette Lab Rat  
**PRODUCT CODE: RCM**

Mimolette Lab Rat mannikin was created so that students and lab technicians can practice endotracheal intubation, cardiac puncture, and blood collection from the saphenous vein without using live rats for training. Mimolette comes complete with her own carrying case, lungs, heart, veins, artificial blood and IV accessories. *An option for a detachable and disposable tail for the capability of IV access at the caudal vein site is available for Mimolette.*

Rat Model  
**PRODUCT CODE: RM**

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

DryLab Plus Rat  
**PRODUCT CODE: DLR**

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.
Anatomy of the Shark  
**Product Code:** CASH  
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.

BioLab Fish  
**Product Code:** BLF  
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.

Vertebrate Dissection Guide: The Dogfish  
**Product Code:** SVDG  
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, anterior circulatory system, sense organs and the brain, and skeleton.

Pregnant Shark Model  
**Product Code:** WSM  
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.

4D Vision Shark Anatomy Model  
**Product Code:** 4DS  
This exceptionally detailed, 3” model contains 20 detachable, hand-painted organs and parts and a display stand. Also includes illustrated assembly guide, a description of the anatomy, along with some fun Q&A to test your knowledge.
STARFISH ALTERNATIVES

BioLab Invertebrate
**Product Code: BLI**

This software allows students the ability to perform informative dissections on four different organisms: the squid, earthworm, crayfish, and sea star. The software also allows the student to survey invertebrates as different as the simple purple sponge and the well developed octopus. The software is designed to encourage comparative investigation of the digestive, respiratory, reductive, nervous, circulatory, skeletal, and excretory systems of the four featured organism.

BioLab Invertebrate
**Product Code: BLI**

This software allows students the ability to perform informative dissections on four different organisms: the squid, earthworm, crayfish, and sea star. The software also allows the student to survey invertebrates as different as the simple purple sponge and the well developed octopus. The software is designed to encourage comparative investigation of the digestive, respiratory, reductive, nervous, circulatory, skeletal, and excretory systems of the four featured organism.

Anatomy of the Starfish
**Product Code: CAST**

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.

Introductory Starfish Model
**Product Code: ISM**

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.

The Dissection Video Series: Starfish
**Product Code: BSV**

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.

Bobbitt Starfish Model
**Product Code: BSM**

This greatly enlarged model of the starfish, which comes mounted on a base, gives extraordinary detail of the internal and external anatomy of the starfish. Comes with manual.

Concise Dissection Chart: Starfish
**Product Code: CS**

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

800.729.2287 the Science Bank - 28
OTHER ALTERNATIVES

Cow Eye
PRODUCT CODE: WCE
Detailed examination of a cow eye. This large organ shows structures including sclera, optic nerve, retina, tapetum, ciliary body, and major muscles.

The Virtual Heart
PRODUCT CODE: UCDVH
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.

Comparative Anatomy
PRODUCT CODE: UCDCA
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.

Cross Section Animal Cell Model
PRODUCT CODE: CSACM
This soft foam cell model splits in half to show the key parts of an animal cell, including the nucleus, nucleolus, vacuole, centrioles, cell membrane and more. One hemisphere is labeled with the parts of the cell; the other features only letters next to each cell part making it a perfect learning tool for kids. A Reference Guide is included, providing activity ideas and facts about animal cells.
Concise Dissection Chart: Squid

**Product Code: CSQ**

This 8 1/2” x 11” charts use high quality photography to depict the complete dissections of a squid.

SimHeart

**Product Code: SH**

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.

SimPatch

**Product Code: SP**

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.

Pig Heart

**Product Code: WPH**

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.

Sheep Brain

**Product Code: WSB**

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

Concise Dissection Chart: Sheep Brain & Pig Heart

**Product Code: CSBPH**

This 8 1/2” x 11” charts use high quality photography to depict the complete dissections of a sheep brain and pig heart.
These Terms and Conditions of Use govern your use of our service and describe the contract that you enter into by borrowing items from us. As used in these Terms and Conditions of Use, “the Science Bank service,” “our service” or “the service” means the service provided by the Science Bank for using the humane science materials we loan. Your agreement with us includes these Terms and Conditions of Use (“Terms”). When you agree to these terms, you acknowledge that you have read and understood the policies of the Science Bank and agree to be bound by them. If you don’t agree with (or cannot comply with) the agreement, then you may not use the Science Bank service.

a. The Science Bank Service: Loan Program
   i. You must be 18 years of age to use the Science Bank service. Individuals under the age of 18, may utilize the service only with the involvement of a parent or legal guardian, under such person’s account and otherwise subject to these Terms of Use.
   ii. You must be a resident of the United States to use the Science Bank service. If you are from another country, contact Animalearn at info@animalearn.org for more information on borrowing materials near you.
   iii. The Science Bank loans last two to three weeks, or as otherwise specified.
   iv. The Science Bank materials are offered on a first come, first serve basis.
   v. It is the borrower’s responsibility to ship the borrowed items back to the Science Bank. After you have finished with the item, please insure the items for the replacement value, which will be indicated on your Science Bank order form as well as the packing slip and letter, which goes out from Animalearn. The borrower should get a tracking number for the shipment so that it can be tracked. Borrowers can ship using either UPS, USPS, or FedEx.
   vi. The Science Bank services, and any content viewed through our service, are for your use only. During your Science Bank loan, we grant you a limited, non-exclusive, non-transferable, license to access The Science Bank materials you have borrowed for a limited time period.
   vii. If you are interested in purchasing any of the materials that you borrow through the Science Bank, the Science Bank staff can connect you with the manufacturers of the products. Just contact us at info@animalearn.org.
   viii. You agree not to archive, download (other than through express use), reproduce, distribute, modify, display, perform, publish, or license the content and information contained on or obtained from or through the Science Bank service without express written permission from the Science Bank and its licensors.

b. Customer Support
   i. The Science Bank staff is available to assist you should you need help choosing the appropriate alternative for your classroom or if you need assistance using the Science Bank materials or help with the website.
   ii. To find more information about our service and its features, or if you need assistance with your account, please contact us at info@animalearn.org.

c. Financial Responsibility
   i. You assume the financial responsibility of the Science Bank materials until they are returned to the Science Bank.
   ii. While the Science Bank service is provided free of charge, to ensure your financial responsibility for the Science Bank materials, the borrower allows the Science Bank to hold a valid credit card number for the time in which the items are borrowed. Your credit card will NOT be billed unless the item(s) are not returned or they are damaged.
   iii. If items are damaged or lost while in your possession or en route back to The Science Bank, you assume the financial responsibility for the items; and therefore authorize The Science Bank to charge your credit card for the cost to repair or replace the items as necessary.
   iv. If any of the items borrowed are broken in transit or for some reason not operational when you receive them, it is your responsibility to inform The Science Bank; otherwise you assume the financial responsibility for the damaged item(s).
   v. If items are not returned by the time arranged, the products will be considered lost, and you assume the financial responsibility for replacing the items.

d. Disclaimers of Warranties and Limitations on Liability
   i. THE SCIENCE BANK SERVICE AND ALL CONTENT AND SOFTWARE ASSOCIATED THEREWITH, OR ANY OTHER FEATURES OR FUNCTIONALITIES ASSOCIATED WITH THE SCIENCE BANK SERVICE, ARE PROVIDED "AS IS" AND "AS AVAILABLE" WITH ALL FAULTS AND WITHOUT WARRANTY OF ANY KIND.
## Loan Request Form

### Delivery Information

<table>
<thead>
<tr>
<th>Name:</th>
<th>Additional Delivery Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td></td>
</tr>
<tr>
<td>Address Line 2:</td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
</tr>
<tr>
<td>State and Zip Code:</td>
<td></td>
</tr>
</tbody>
</table>

### Credit Card Information

<table>
<thead>
<tr>
<th>Visa</th>
<th>MasterCard</th>
<th>American Express</th>
<th>Discover</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Card #:</th>
<th>Exp. Date:</th>
<th>CVV:</th>
<th>Signature:</th>
</tr>
</thead>
</table>

### Requested Items

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Quantity</th>
<th>Comment (VHS/DVD</th>
<th>Windows/MAC</th>
<th>Male/Female</th>
<th>etc.)</th>
</tr>
</thead>
</table>

### Requested Loan Dates (mm/dd/yy - mm/dd/yy):

<table>
<thead>
<tr>
<th>Requested Loan Dates (mm/dd/yy):</th>
</tr>
</thead>
</table>

☐ I agree to the Loan Agreement terms.  
Signature: ___________________________ Date: __________
**Frequently Asked Questions**

**IS THIS A FREE LOAN PROGRAM?**
Yes. However, Animalearn does request a valid credit card 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 Request Form on page 32 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 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 EST

**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 catalog item.
The Science Bank is proud to highlight partnerships with these companies that have developed innovative humane science education teaching tools.