

## Sample Materials

### 5th Grade Life Science - Living Systems

#### Audio Tape/CD

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##### **Sing the Science Standards**

\$30-35

Science Explosion, Inc.

<http://www.scienceexplosion.com>

Join the "Science Explosion" as they sing over 50 songs written to the Science Standards. This is a great way for students in elementary and middle school to review the most important ideas in science. Over 50 songs are included on this double-CD which also includes lyrics and instrumental versions. Bring the Science Standards to life with "Sing the Science Standards with the Science Explosion." Also has another two disc Volume 2 CD. Songbook available for \$27.50.

#### Classroom Books

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##### **A Freshwater Pond**

\$8-9

Amazon.com

[http://www.amazon.com/A-Freshwater-Pond-Small-Worlds/dp/0778701336/ref=sr\\_1\\_6?ie=UTF8&ISBN: 0778701476](http://www.amazon.com/A-Freshwater-Pond-Small-Worlds/dp/0778701336/ref=sr_1_6?ie=UTF8&ISBN: 0778701476)

By Adam Hibbert. A Freshwater Pond describes the plants, animals and insects that live in a pond and how they adapt to its changing conditions in dry summers and icy winters. Insects, amphibians, reptiles and animals are featured along with plants ranging from single-celled algae to bug-eating plants.

##### **Activity books in Sunflower/Girasol Bilingual Series**

\$5-6

Intercultural Center for Research in Education

<http://www.incre.org>

Student Activity Books and Bilingual Memory Game sold separately. Sunflower/Girasol is a fully bilingual Spanish/English curriculum designed to encourage students to develop language skills and at the same time to turn their interest to the world of scientific discovery. The full-color format of Sunflower/Girasol invites children in grades 2-6 to engage in science and environmental education activities and to carry out investigations in their schools, homes and communities. Each thematic unit of Sunflower/Girasol is presented in a full-color magazine format activity book in either Spanish or English, with an accompanying teacher's guide. The first six units of Sunflower/Girasol are Plants, Water, Human Body, Air, Trash and Sound.

<p><b>Blood and Gore, Like You've Never Seen</b>  Amazon.com  <a href="http://www.amazon.com/Blood-Gore-Like-Youve-Never/dp/0590926659/ref=sr_1_1?s=books&amp;ie=l">http://www.amazon.com/Blood-Gore-Like-Youve-Never/dp/0590926659/ref=sr_1_1?s=books&amp;ie=l</a>  ISBN: 0590926659  By Vicki Cobb. Electron micrographs create a dramatic journey into the blood, skin, bone, muscle, and nerves of the human body, magnifying the tiniest cells millions of times. This book features a big trim size, full-color electron micrographs throughout, and Vicki Cobb's signature kid-friendly text.</p>	<p>\$9-10</p>
<p><b>Grays Anatomy Coloring Book: A Fact-Filled Coloring Book</b>  Amazon.com  <a href="http://www.amazon.com">http://www.amazon.com</a>  ISBN0762409444  By Stark, Freddy. A fascinating voyage of discovery through the human body. Learn about what makes the body work and just how intricate human beings are--both inside and out. Sixty detailed drawings, designed for coloring, are enhanced by detailed text describing each illustration</p>	<p>\$10-15</p>
<p><b>Head To Toe Science</b>  Amazon.com  <a href="http://www.amazon.com/Head-Toe-Science-Spine-Tingling-Heart-Pounding/dp/0471332038/ref=sr_1_1?s=books&amp;ie=l">http://www.amazon.com/Head-Toe-Science-Spine-Tingling-Heart-Pounding/dp/0471332038/ref=sr_1_1?s=books&amp;ie=l</a>  ISBN 0471332038  By Jim Wiese. The author of numerous science activity books (most recently Magic Science, 1998) offers this collection of demonstrations that illustrate scientific principles about the human body. The projects are arranged by system (nervous, digestive, respiratory, circulatory, muscular, skeletal, reproductive, and skin), and each project includes an introduction, a list of materials, procedural guidelines, and an explanation of the science involved. Numerous sidebars ("Science in Action" and "More Fun Stu</p>	<p>\$10-15</p>
<p><b>Human Body (Library of Science)</b>  Amazon.com  <a href="http://www.amazon.com/Human-Library-Science-Kristeen-Rogers/dp/0794500811/ref=sr_1_2?s=books&amp;ie=l">http://www.amazon.com/Human-Library-Science-Kristeen-Rogers/dp/0794500811/ref=sr_1_2?s=books&amp;ie=l</a>  ISBN: 0794500811  by Kirsteen Rogers, Corinne Henderson, Verinder Bhachu (Illustrator), Laura Howell, Judy Usborne Internet-Linked Science Encyclopedia Tatchell, Kristeen Rogers. Provides information on the various systems and organs of the human body and the principles of a healthy lifestyle, and recommends related Web sites. Available in Library Binding for \$17.95</p>	<p>\$8-9</p>
<p><b>Life in a Bucket of Soil</b>  Acorn Naturalists  <a href="http://www.acornnaturalists.com/store/LIFE-IN-A-BUCKET-OF-SOIL-P2116C0.aspx">http://www.acornnaturalists.com/store/LIFE-IN-A-BUCKET-OF-SOIL-P2116C0.aspx</a>  #B-9164.  Silverstein. Healthy soils swarm with countless numbers of creatures, most of whom live and die just beneath the earth's surface. In a simple bucket of soil you can find tunnel-building earthworms, threadlike roundworms, snails, slugs, isopods, centipedes, beetles, spiders, ants, and countless numbers of smaller organisms. Illustrated with over 70 drawings, this fact-filled book will appeal to teachers and their students, young naturalists, biologists, and insect enthusiasts.</p>	<p>\$5-6</p>

<b>Mr. Wizard's Supermarket Science</b>	FREE
Alameda County Public Libraries	
<i>http://alam1.aclibrary.org/search~S30?/tmr+wizard/tmr+wizard/1%2C6%2C6%2CB/frameset&amp;FF=J507.8 HERBERT</i>	
A supermarket of interesting science-related devices, stunts, and puzzles to make from items found at a grocery store. More than 100 projects, all simple enough for middle-graders. The essentials--ideas based on curiosity and creativity, clear instructions, and explanations of why the projects work--are all here.	
<b>Muscles: Our Muscular System</b>	\$6-7
Amazon.com	
<i>http://www.amazon.com/Muscles-Muscular-System-Seymour-Simon/dp/0688177204/ref=sr_1_1?s</i>	
by Seymour Simon, non-fiction. The anatomy and function of muscles are described in clear text, including the three different types of muscles and how exercise affects them. The picture-book format includes MRI scans, x-rays, drawings, and full-page, computer-generated illustrations. This is one in a series of books on the human body by this author. Other titles by same author: "The Brain," "The Heart," "Galaxies," "The Sun," "Stars," and books titled by planet.	
<b>One Small Square: Arctic Tundra</b>	\$9-10
Acorn Naturalists	
<i>http://www.acornnaturalists.com/store/ARCTIC-TUNDRA-One-Small-Square-Series-P619C0.aspx B-5952</i>	
by Silver, Wynne. Wonderful descriptions of a land where a winter night lasts three weeks and the ground is icy on the warmest day of the year. Contains illustrated field guide to common arctic plants and animals along with descriptions of behavioral adaptations, food chains, and survival strategies. Engaging reading for ages 6 to 10.	
<b>Outside and Inside Alligators</b>	\$5-6
Amazon.com	
<i>http://www.amazon.com/Outside-inside-alligators-Sandra-Markle/dp/0439113113/ref=sr_1_1?s=bc ISBN: 978-0439113113</i>	
By Sandra Markle. This photo-essay's enthusiastic emphasis on anatomy and precise details distinguish it from other books about alligators. It describes the external and internal characteristics of alligators and how they find food, mate, and raise their young.	
<b>Sing A Song of Science</b>	\$15-20
Amazon.com	
<i>http://www.amazon.com/Sing-Song-Science-Kathleen-Carroll/dp/156976090X/ref=sr_1_2?s=book ISBN: 156976090X</i>	
by Kathleen Carroll. Sing A Song Of Science presents sixteen topics showcased in songs, raps, stories, and visualizations in the format of a 64-page activity manual and a 35-minute audiotape designed for use with elementary school grades K-6. Important subjects as matter and energy, weather, how the human body works, the story of George Washington Carver, tropical rain forests, etc. are presented with an easy-to-read overviews and combines an innovative approach with traditional methods of teaching to reinforce fundamental science facts. Each topic includes two sets of activities enabling students to construct their own understanding with hands-on kinesthetic discover activities. The students further expand their learning with activities to reinforce the vocabulary and concepts learned in the songs.	

<b>Sports Science for Young People</b>	\$4-5
Amazon.com	
<a href="http://www.amazon.com/Sports-Science-Young-People-Childrens/dp/0486265277/ref=sr_1_1?s=b">http://www.amazon.com/Sports-Science-Young-People-Childrens/dp/0486265277/ref=sr_1_1?s=b</a> ISBN: 0486265277	
by George Barr, Does a curve ball really curve? Why does a golf ball have dimples? Answers to these and hundreds of other questions in this entertaining, well-illustrated account of scientific principles underlying major sports activities. Includes chapter on athlete's body and its performance related to physical principles.	
<b>Sports Science Projects: The Physics of Balls in Motion</b>	\$4-5
Amazon.com	
<a href="http://www.amazon.com/Sports-Science-Projects-Physics-Success/dp/0766011747/ref=sr_1_1?s=b">http://www.amazon.com/Sports-Science-Projects-Physics-Success/dp/0766011747/ref=sr_1_1?s=b</a> ISBN: 0766011747	
by Madeline Goodstein - This well-organized, clearly written series title will get readers thinking about why a baseball has stitches, why a tennis ball has fuzz, and how a Ping-Pong ball will change if its center is filled. Exciting experiments demonstrate the differences among the types of balls used in sports and the relationship between design and performance. Many of the experiments are followed by excellent ideas for science-fair projects. Black-and-white diagrams and drawings illustrate the concepts discussed. This valuable, practical resource encourages exploration and experimentation.	
<b>The Heart</b>	\$10-15
Amazon.com	
<a href="http://www.amazon.com/Heart-Mulberry-Books-Seymour-Simon/dp/0688170595/ref=sr_1_1?s=bo">http://www.amazon.com/Heart-Mulberry-Books-Seymour-Simon/dp/0688170595/ref=sr_1_1?s=bo</a> ISBN 0688170595	
by Seymour Simon. Simon approaches the human heart as he approached outer space and oceans: as an adventure to be explored. As always, the full-page, full-color photographs are spectacular, and the text is crisp and full of detail. In a conversational yet instructive style, the author presents young readers with fascinating information that will almost certainly spur them on to read more. Topics include types of blood vessels, coronary bypass surgery, strokes, and anatomy of the heart. There is no index, but since each two-page spread clearly addresses a specific topic, one isn't necessary.	
<b>The Tree in the Ancient Forest</b>	\$7-8
Amazon.com	
<a href="http://www.amazon.com/Tree-Ancient-Forest-Carol-Reed-Jones/dp/1883220319/ref=sr_1_1?s=bo">http://www.amazon.com/Tree-Ancient-Forest-Carol-Reed-Jones/dp/1883220319/ref=sr_1_1?s=bo</a>	
by Carol Reed-Jones. A 300-year-old fir tree is the main character in a forest drama depicting the cycle of interdependence between plants and animals. The truffles that grow on the roots of the fir tree are food for the mice, who, in turn, are food for the owls living in the hollow of the tree that was created by a woodpecker, and so on. Reed-Jones' cumulative verse technique, which very effectively illustrates the ecological concept, will make this book a lively story-time or lap-share read-aloud as well as a good choice for choral reading. Canyon's superb double-page illustrations can be appreciated both as fine works of art and as detailed studies of forest flora and fauna.	
<b>Zzz: The Most Interesting Book You'll Ever Read About Sleep</b>	\$3-4
Amazon.com	
<a href="http://www.amazon.com">http://www.amazon.com</a> ISBN: 1550749463	

By T. Romanek, R. Cowles (Illustrator). Although this volume is filled with cartoon illustrations, the text is well written and full of factual information, covering topics such as REM sleep, nightmares, sleepwalking, dreams, hibernation, and sleep disorders. The text is loosely organized by topic (stages of sleep, tossing and turning, etc.). The writing style is breezy and conversational, but focused enough to be complete and accurate.

## Computer Software

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### **Operation Frog Deluxe**

\$35-40

Tom Snyder Productions

<http://www.tomsnyder.com>

Scholastic. This teacher-developed program guides students through the virtual dissection of a frog, including pre-lab instructions, lab simulations, and post-lab reinforcements. Program includes a Mac/Win CD-ROM and comprehensive Teacher's Guide with reproducible worksheets, puzzles, and activities.

Your students explore: External Features

Mouth

Digestive System

Reproductive System

Circulatory System

Skeletal System

## Kits & Modules

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### **Coral Reefs: Science and Conservation**

\$15-20

California Academy of Sciences

<http://www.calacademy.org/teachers/erk.php>

Develop student appreciation for one of the world's most fragile ecosystems with this coral reef kit. Through an engaging variety of hands-on activities and games, students will learn about coral anatomy, sexual and asexual reproduction, coral distribution, and coral's requirements for life.

Lending Fee: \$20 - Loan period: 3 weeks

Kit Reservations: Advance reservation required. Call (877) 227-3311

### **Owl Pellets and Beyond**

\$15-20

California Academy of Sciences

<http://www.calacademy.org/teachers/erk.php>

Owl pellet dissections are universally appealing to students. This predator/prey discovery experience is better than any wildlife video, with each child finding the skeletal remains of a real animal - most likely a rodent or insectivore. This kit includes everything needed for each student to perform an owl pellet dissection and identify the prey based on skull characteristics. Additional resources in the kit include: a tri-fold poster display of prey specimens, two videos on the natural history of owls, one mounted owl specimen, several books, and a new educational board game.

Lending Fee: \$20 - Loan period: 3 weeks

Kit Reservations: Advance reservation required. Call (877) 227-3311

**Rainforests of the World**  
California Academy of Sciences

\$15-20

<http://www.calacademy.org/teachers/erk.php>

Rainforests have more species of plants than any other type of forest in the world. Many everyday products such as medicine and food come from these plants. Included in the kit is a collection of real rainforest products that will help students understand the importance of tropical rainforests and the need for protecting these ecosystems that are so valuable to humans. The kit also includes a device that simulates bat echolocation. Imagine the fun your students will have using this device to locate food! There are props for an intriguing water cycle role-play activity, a card game that will focus student interest on the life cycles of plants, and much, much more!

Lending Fee: \$20 - Loan period: 3 weeks

Kit Reservations: Advance reservation required. Call (877) 227-3311

**Tropical Rainforests: The Web of Life**

FREE

Folk Art International Resources for Education

<http://www.folkartintl.com>

Learn about the everyday life of the Yanomami and their tropical home in Amazonia. Discover the biodiversity of the rainforest and learn how to protect this endangered habitat through letter writing, recycling and fundraising. Highlights of Content: Animal Badges, Rainsticks and Blowguns, Manioc Squeezers, Tapes, Photographs and Slides.

**Posters/Pictures/Slides**

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**Bone ID Chart**

\$3-4

Genesis Inc

<http://www.pellet.com>

BIC

A fantastic addition to the classroom to aid in the bone identification during your owl pellet dissection. Each Poster (26" x 18") is printed on a heavy low-gloss paper and contains the primary skeletal features of rodents, shrews, moles, and birds.

**Human Anatomy Charts**

\$15-20

Einstein's Emporium

<http://www.einsteins-emporium.com>

GH210

Give an in depth look to the different parts of the human body. Use the Ear chart to show the body parts the help us hear. Different human body charts to choose from: Muscles, Heart & Blood, Brain & Nervous System, Respiratory System, Digestive System, Taste & Smell, and Eyes & Ears.

**Specimen**

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**Cow eyes/Lamb hearts**

FREE

Smith Meats

Sells animal parts special order for dissection experiments and learning about anatomy/internal processes.

### **Cow Hearts, Eyes, Lungs, Kidneys**

\$0-1

Harris Ranch

<http://www.harrisranch.com/>

Items for educational purposes are free: 2 Hearts Bio (\$0.69/ additional pound); 2 Plucks (\$0.78/ additional pound); 2 whole Brains (\$1.10/ additional pound); 50 eyes (\$1.00/ additional pound); 2 Lungs (\$0.25/ additional pound); 2 Kidneys (\$0.50/ additional pound).

### **Hard Bodies (Skeletons)**

\$10-15

Randall Museum

<http://www.randallmuseum.org/>

Includes samples of endo- and exoskeletons. Items: horseshoe crab, barnacle, sea star and urchin; mussel and box turtle shells; deer rib and vertebra; rodent and bird skulls; frog skeleton.

### **Introductory Classroom Owl Pellet Kit**

\$45-50

Acorn Naturalists

<http://www.acornnaturalists.com/store/INTRODUCTORY-CLASSROOM-OWL-PELLET-KIT-Grade-KIT-12864>

(Grades 3-8). Teaches students basic owl pellet dissection techniques, methods for identifying animal skulls and bones, and the process of reconstructing a food web from the results of pellet dissections. The kit comes with an instructor's guide with objectives, approaches, and procedures along with photographs and illustrations of common prey and skulls found in owl pellets, and a food web lesson. Includes 15 student guides (which discuss the natural history of the barn owl, and describe pellet dissection and common skulls found in pellets); a food web poster; 15 wooden probes; vole skeleton transparency; and 15 owl pellets. #KIT-12864.

### **Jumbo Pellets 2" and over**

\$2-3

Genesis Inc

<http://www.pellet.com>

#JOB

All Barn Owl Pellets are sorted for quality and size, Heat Treated, and individually wrapped in aluminum foil. Introduce students to skeletal anatomy and the identification of prey taken by the Barn Owl. Can be used to effectively illustrate the nature of food chains and to demonstrate the role of avian predators in the ecosystem, and to provide information about the presence of animals in a particular area. Each Barn Owl Pellet is from the wild and unique in size, shape, and contents. Owl Pellets are a Natural Educational Tool that is useful in determining the diet of the Barn Owl.

### **Microslide Lesson Sets: Harmful and Helpful Bacteria**

\$7-8

Delta Education

<http://www.delta-education.com/>

131-4870

Grades 1-6. Content Standard C, K-4; 5-8. Stimulate inquiry! Each lesson includes 8 detailed images per slide, and a detailed lesson plan designed to inform and question students about the topic under investigation. Arrows and callouts help students locate important features on each slide.

**Original Pak** \$30-35  
Genesis Inc  
<http://www.pellet.com>  
#OPP  
Kit includes 1 Instructors Guide containing information on owl pellets, teaching instructions, questions and answers; Key to Skulls; and the "Vole Stick Sheet" used to identify individual bones of the Vole (Meadow Mouse). 30 Individualized Student Worksheets containing detailed illustrations of the skulls from prey found in owl pellets, charts, questions and more. Vole Skeleton Transparency and 15 Treated Barn Owl Pellets wrapped in aluminum foil.

**Owl Pellet Classroom Study Kit** \$50-60  
Carolina Biological  
<http://www.carolina.com>  
227830  
The Classroom Kit has 16 owl pellets, 30 owl pellet bone charts, 30 rat skeleton sheets, 30 student activities, 32 wooden probes, and a teacher's guide. Owls are popular animals for classroom study. Their pellets reveal the organisms composing part of the owl's food web, as well as illustrate how different organisms fill the same niche in different ecosystems. Carolina's supplies individually wrapped owl pellets that have been heat pasteurized at 250 degrees for 30 minutes and are free of any chemicals.

**Owl Pellets, premium quality** \$2-3  
Niles Biological  
<http://www.nilesbio.com>  
\$2.05 each. Discounts for bulk orders

**Pellets 1-1/2" or longer** \$1-2  
Genesis Inc  
<http://www.pellet.com>  
#BOP  
All Barn Owl Pellets are sorted for quality and size, Heat Treated, and individually wrapped in aluminum foil. Introduce students to skeletal anatomy and the identification of prey taken by the Barn Owl. Can be used to effectively illustrate the nature of food chains and to demonstrate the role of avian predators in the ecosystem, and to provide information about the presence of animals in a particular area. Each Barn Owl Pellet is from the wild and unique in size, shape, and contents. Owl Pellets are a Natural Educational Tool that is useful in determining the diet of the Barn Owl.

**Pellets Under 1-1/2" long** \$1-2  
Genesis Inc  
<http://www.pellet.com>  
#SOP  
All Barn Owl Pellets are sorted for quality and size, Heat Treated, and individually wrapped in aluminum foil. Introduce students to skeletal anatomy and the identification of prey taken by the Barn Owl. Can be used to effectively illustrate the nature of food chains and to demonstrate the role of avian predators in the ecosystem, and to provide information about the presence of animals in a particular area. Each Barn Owl Pellet is from the wild and unique in size, shape, and contents. Owl Pellets are a Natural Educational Tool that is useful in determining the diet of the Barn Owl.

**Plants Prepared Slide Kit** \$10-15  
Lakeshore Learning Store

<http://bit.ly/1xhzswd>  
tem# LC3541

Children get an up-close look at plants with 12 ready-to-use slides! Plastic slides are 2 1/4".

**Standard Stock Seeds** \$10-15  
Carolina Biological

<http://www.carolina.com>  
158804

Pack of 50 seeds. The Standard Stock represents the standard form and performance for Wisconsin Fast Plants. Plants have been selected to have a uniform, short flowering time (14 days) under ideal growing conditions of continuous light, water, and nutrition. The entire life cycle is short; under ideal growing conditions, plants will produce harvestable seeds approximately 40 days after planting. Average plant height at day 14: 15 cm. For investigations in life cycles, environmental science, botany, comparative morphology, and physiology.

## Stickers/Games

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**Food Chain Card Game** \$6-7  
AIMS Education Foundation

<http://www.aimsedu.org/item/3075/life-in-the-food-chain-card-game/1.html>  
3075

Thirty-nine plant and animals representing those commonly found on school playgrounds are illustrated and described in the multi-use card game. Each card contains information about the organism's place in the food chain, preferred food, and whose food it might be. Extra blank cards are provided. Directions for activities and games are included. Designed to accompany the AIMS publication Field Detectives or be used on its own.

**Games for Your Brain: Human Body** \$15-20  
Amazon.com

<http://www.amazon.com/Games-Your-Brain-Human-Cards/dp/0811846717>

GAMES FOR YOUR BRAIN: HUMAN BODY. Packed with fun and fascinating information on human anatomy and physiology, this card deck turns learning about how humans work into fun. Play versions of Crazy Eights, Gin Rummy, Go Fish, Solitaire, and Concentration as you learn more about the human anatomy and physiology. Ages 5 and up.

**Human Body Card Game** \$9-10  
Acorn Naturalists

<http://www.acornnaturalists.com/store/HUMAN-BODY-CARD-GAME-Professor-Noggin-P5755C0.0>  
#G-16195.

PROFESSOR NOGGIN'S HUMAN BODY CARD GAME. Each of the thirty cards combines trivia, true or false and multiple choice questions about the human body. A special three-numbered die is included for spurring interaction and communication between players. Easy and hard questions maintain interest and keep the game challenging. Game is designed for 2-8 players, ages 7 and up.

## **Into the Forest: Nature's Food Chain Game**

\$15-20

Acorn Naturalists

<http://www.acornnaturalists.com/store/INTO-THE-FOREST-Natures-Food-Chain-Game-P693C0.a#G-1026>.

Ampersand Press. Colorful cards represent the animals and plants of the forest - each card listing what the animal eats and is eaten by. At the end of the game, players count earned energy points. For 2-6 players, ages 7 and up.

## **Onto the Desert: A Game of Survival**

\$15-20

Acorn Naturalists

<http://www.acornnaturalists.com/store/ONTO-THE-DESERT-A-Game-of-Survival-P639C0.aspx#G-4195>.

Ampersand. Deserts cover vast portions of the globe, and yet one finds relatively few books and videos on them, and until now, no games. Onto the Desert contains 41 animal and plant cards, instructions, fact sheets and a full color 15" x 20" desert habitat poster. Hours of entertainment for ability levels ranging from age 8 to adult.

## **Predator - The Food Chain Game.**

\$10-15

Acorn Naturalists

<http://www.acornnaturalists.com/store/PREDATOR-The-Food-Chain-Game-P4575C0.aspx#G-14349>.

Ampersand. Based upon the natural food relationships in a forest, the cards in this game represent plants and animals found in the temperate North American forests. Animals search out their food, or they are eaten by one of the predators. Great for classroom learning centers or nature centers. Ideal for 2-6 players, ages 8-adult. Please also see art section of this catalog for a complete listing of rubber stamps depicting the animals found in this game. Use as extension projects whereby students can create their own food chain scenarios.

## **Puma Activity Book**

FREE

Felidae Conservation Fund

Available free online pdf.

[http://www.felidaefund.org/pdf/activity\\_book.pdf](http://www.felidaefund.org/pdf/activity_book.pdf)

The Bay Area Puma Project (BAPP) is the first large scale research, education and conservation program for pumas in and around the San Francisco Bay Area. BAPP's primary goal is to increase knowledge, understanding and awareness about Bay Area puma populations, in order to promote better co-existence and less conflict between humans and pumas in the region, and ultimately to help foster a more harmonious relationship between humans and the natural world.  
<http://www.bapp.org/objectives>

## Teacher Guide/Reference/Curriculum

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### **A Child's Garden of Standards:**

\$15-20

California Department of Education

<http://www.cde.ca.gov/re/pn>

001579

Linking School Gardens to California Education Standards,

## **Backyard Mystery**

University of California Berkeley (UC Berkeley)

FREE

<http://ucbiotech.org/backyardmystery/index.html>

FREE - order online. Backyard Mystery is an NSF-funded curriculum, focused on diseases, pathogens and careers, using interactive paper and physical activities. Content is for middle school participants in afterschool settings, like 4-H and other similar venues. The curriculum engages student interest in genetics and genomics and in the bioSTEM workforce.

The curriculum is available in two forms: a combined lesson that brings all of the elements together in one session and another in which the content is broken out into three separate lessons.

## **Growing Classroom: Garden-Based Science**

\$90-100

Amazon.com

[http://www.amazon.com/Growing-Classroom-Roberta-Jaffe-Appel/dp/0915873486/ref=sr\\_1\\_1?s=l](http://www.amazon.com/Growing-Classroom-Roberta-Jaffe-Appel/dp/0915873486/ref=sr_1_1?s=l)

480 pages (gr. 2-6). Developed by the LifeLab Program, this teacher's manual features strategies for managing garden-based science instruction -- including planning a garden laboratory, facilitating investigative lessons on ecology and nutrition, and involving the community.

## **GrowLab: Activities for Growing Minds**

\$20-25

National Gardening Association

<http://www.garden.org>

#10-4008

This K-8 curriculum will bring plant-based inquiry to life by helping you spark students' curiosity about plants and engage them in thinking and acting like scientists, whether you're growing on a windowsill, in a greenhouse or in one of our GrowLab Indoor Gardens. Concepts Covered: Beginning with Seeds, Basic Needs, The Soil Connection, Transport and Support, Plants as Food Makers, Plants from Seeds and Parts, Adaptations, Diversity, Interdependence, and Human Impact on the Global Garden. Subjects from language arts to drama are woven into investigations. Includes reproducible record-keeping sheets and assessment sheets.

## **Head to Toe**

\$20-25

AIMS Education Foundation

<http://www.aimsedu.org/item/p-1304/from-head-to-toe-5-9/1.html>

1304

12 activities - 86 pages

Students study their own bodies to learn about the respiratory, circulatory, and skeletal systems. Includes extensive use of measurement and charting to explore averages and proportions.

## **Magnificent Microworld Adventures: Microscopic Topics**

\$20-25

AIMS Education Foundation

<http://www.aimsedu.org/item/1312/magnificent-microworld-adventures-microscopic-topics-6-9/1.ht>

1312

26 activities—158 pages

Experience the awe of exploring the worlds of protozoa and easily-observed plant and animal cells. In addition to Life Science content, students learn to correctly use microscopes, keep accurate notes, and make drawings of their observations. Includes the MicroWorld Adventures video.

## Teacher Guides - Sunflower/Girasol Bilingual Series

\$10-15

Intercultural Center for Research in Education

<http://www.incre.org>

Teacher Guides - Sunflower/Girasol is a fully bilingual Spanish/English curriculum designed to encourage students to develop language skills and at the same time to turn their interest to the world of scientific discovery. The full-color format of Sunflower/Girasol invites children in grades 2-6 to engage in science and environmental education activities and to carry out investigations in their schools, homes and communities. Each thematic unit of Sunflower/Girasol is presented in a full-color magazine format activity book in either Spanish or English, with an accompanying teacher's guide. The first six units of Sunflower/Girasol are Plants, Water, Human Body, Air, Trash and Sound.

## The Accidental Scientist: The Sporting Life

\$4-5

Amazon.com

[http://www.amazon.com/Sporting-Life-Accidental-Scientist/dp/0805045406/ref=sr\\_1\\_fkmr0\\_1?s=b](http://www.amazon.com/Sporting-Life-Accidental-Scientist/dp/0805045406/ref=sr_1_fkmr0_1?s=b)

By Susan Davis, Sally Stephens, and the Exploratorium

Why did Michael Jordan seem to hover in midair? How does the composition of your muscles affect your speed and endurance? What makes one running shoe better than another? Part of the "Accidental Scientist" series—designed to reveal the hidden science underlying the things we do everyday—you'll learn the answers to these questions, and much more.

## Tools/Equipment

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### 100X Hand-held microscope

\$10-15

Educational Innovations, Inc.

<http://www.teachersource.com>

MIC-100

Educational Innovations is proud to finally offer a pair of precision 30 and 100 times magnification hand-held microscopes. Both microscopes include built-in light sources (2 AA batteries not included) to brightly illuminate your objective as well as a slide-out 8x magnifier lens. The 100 power microscope also includes a sturdy stand and 6 specimen slides! The microscopes' compactness makes them easy to use and perfect in the field.

### 30X Hand-held microscope

\$10-15

Educational Innovations, Inc.

<http://www.teachersource.com>

MIC-30

Educational Innovations is proud to finally offer a pair of precision 30 and 100 times magnification hand-held microscopes. Both microscopes include built-in light sources (2 AA batteries not included) to brightly illuminate your objective as well as a slide-out 8x magnifier lens. The microscopes' compactness makes them easy to use and perfect in the field.

### 3B Introductory Brain Model

\$100-120

Ward's Natural Science

<http://www.wardsci.com>

81 W 3026

Bisected to show major structures both internally and externally, and painted and numbered to distinguish the various essential components. Life Size.

<b>Bromthymol Blue</b>	\$6-7
Carolina Biological	
<i>http://www.carolina.com</i>	
849165	
500 mL of 0.04% aqueous (in liquid) BTB. Bromthymol Blue is a carbon dioxide indicator and can be used in experiments observing photosynthesis. Ask CRS for a copy of the activity!	
<b>Budget Bart Skeleton Model 4 Ft 2 In</b>	\$100-120
Amazon.com	
<i>http://www.amazon.com/Budget-Bart-Skeleton-Model-Ft/dp/B00081Q96U/ref=sr_1_11?ie=UTF8&amp;</i>	
Brand New	
Anatomically accurate. Compact	
<b>Discovery Scope</b>	\$35-40
Acorn Naturalists	
<i>http://www.acornnaturalists.com/store/DISCOVERY-SCOPE-P1289C0.aspx</i>	
T-1134	
The Discovery Scope features stunning optical clarity and depth of field. Revolutionary wide angle design lets in light to show details with crystal clarity. Includes the scope, a clamp, chamber holder, two clearview chambers, and dropper for aquatic specimens. 10 or more at \$32.95 each.	
<b>Dissecting Kits</b>	\$10-15
Math Science Nucleus	
<i>http://www.ms-nucleus.org</i>	
G-377	
Students can dissect plant or animal parts, or examples for them, like chocolate chip cookies to learn about the insides of things. Dissecting kits are also useful for owl pellet dissection. Includes plastic case, ruler, medicine dropper, forceps, 2 metal needle holders with chuck, straight needle, bent needle, scalpel, scissors.	
<b>Ear Model, Human</b>	\$60-70
Carolina Biological	
<i>http://www.carolina.com</i>	
566959	
Life size. This 1-piece model shows external ear, ear canal with tympanic membrane and Eustachian tube, ossicles, cochlea, and auditory nerve. Mounted on a base. Includes full-color, illustrated key. Approximate size (without base), 7.5 × 10 × 6 cm.	
<b>Flexible Mr. Thrifty Skeleton With Spinal Nerves</b>	\$50-60
Amazon.com	
<i>http://www.amazon.com/Flexible-Thrifty-Skeleton-Spinal-Nerves/dp/B000PM1D00/ref=sr_1_13?ie</i>	
Brand New	
Anatomically accurate. Compact	
33 1/2" High NOT LIFE SIZE	
Advanced version with Spinal Nerves	
One year warranty. 100% money back guarantee	

## **Human Body Anatomy Model**

\$15-20

Amazon.com

[http://www.amazon.com/Learning-Resources-LER3336-Human-Anatomy/dp/B0012OELR6/ref=sr\\_](http://www.amazon.com/Learning-Resources-LER3336-Human-Anatomy/dp/B0012OELR6/ref=sr_)

Includes : Human Body Anatomy Facts, Organs fit nicely into the body torso and are secured in place with the rib cage, Includes 31-Piece torso model, display stand and guide with anatomy facts, Includes step by step instructions, Measures 41"H when assembled.

## **Human Desktop Mini Skeleton**

\$120-140

Carolina Biological

<http://www.carolina.com/product/human+desktop+mini+skeleton.do?keyword=human+skeleton+m>

Plastic. Good quality. This 33" miniature human skeleton features a flexible vertebral column that includes the spinal cord, spinal nerves, vertebral arteries, and a herniated disc. The skeleton's removable 3-piece skull has a spring-held lower jaw so that jaw movement can be demonstrated. Includes a sturdy steel hang-up stand and the Human Anatomy Manual.

## **Human Heart Model**

\$50-60

Carolina Biological

<http://www.carolina.com>

56-6903A

Altay®. Life size. Dissectible into 2 parts. Clearly shows internal and external anatomy including valves, cardiac chambers, and pulmonary and systemic vascular structures. All significant features are numbered; key included. Mounted on stand. Size (without stand), 14 × 10 × 9 cm.

## **Magiscope" Brock Microscope**

\$100-120

Educational Innovations, Inc.

<http://www.teachersource.com>

MIC-310

The Brock Magiscope is known for its ruggedness, simplicity and versatility - perfect for classroom use. With the new fine adjustment ramp, it is even easier to focus. It has only one moving part, no batteries, and no breakable glass mirrors. This model with its a 5X eyepiece and a 4X objective lens gives a 20X magnification. With accessory eyepieces and objective lenses (not included), you can obtain 400X magnification. 104.95 each when buy 6 or more.

## **Mini Torso Model**

\$90-100

Delta Education

<http://www.delta-education.com/>

WW130-9120

Anatomically accurate model stands 20" tall and features removable and dissectable organs made of soft plastic. Includes 11 pieces and an illustrative sheet identifying organs and more.

## **Mr. Thrifty Skeleton, 33-1/2" Tall**

\$50-60

Edmund Scientific

<http://www.scientificsonline.com/mr-thrifty-teaching-skeleton-with-spinal-nerves.html>

An economical teaching skeleton with full natural movement. Encourages children to learn the names of the bones, yet has detail to satisfy students, doctors or anyone interested in the human skeleton. Key card and a heavy metal stand included. Removable calvarium. Size: 33-1/2" tall.

<p><b>Multi Study-Scope</b>  American Science &amp; Surplus  <a href="http://www.sciplus.com/">http://www.sciplus.com/</a>  91882</p>	\$50-60
<p>The 20X Premiere Multi Study-Scope is a good utility scope for adults, but so easy to operate that children 7 and over can use it. It has rugged, all-metal construction, a comfortably inclined eyepiece, a head that can be rotated, a small 4-1/4" x 5 3/4" footprint, and a dust cover. The instrument extends 9" high overall, with a working distance of 2-5/8". The rack and pinion focus delivers a clear, non-inverted images of slides and three-dimensional objects like coins, leaves, and insects.</p>	
<p><b>Nasopharynx and Sinus model</b>  Carolina Biological  <a href="http://www.carolina.com">http://www.carolina.com</a>  56-6657</p>	\$60-70
<p>Near median section through the nose and nasal passages gives excellent view of nasopharyngeal structures, including the tongue, nasal cavity with turbinates, soft and hard palate, uvula, and ethmoid and maxillary sinus cavities. Model measures 5 1/4 x 4 1/2 x 1/2" and includes removable base and full-color, illustrated key.</p>	
<p><b>Pocket Microscope</b>  American Science &amp; Surplus  <a href="http://www.sciplus.com/">http://www.sciplus.com/</a>  34407</p>	\$6-7
<p>This 30X pocket microscope is compact to carry and easy to use when you need a clear, close look at leaves, insects, or assorted minutiae. The 5-3/4" x 1-5/8" x 3/4" black-plastic magnifier has a focus knob, a small bulb for illumination, an on/off switch, and a protective vinyl carrying case. Requires 2 AA batteries.</p>	
<p><b>Somso Human Arm and Shoulder Girdle</b>  Carolina Biological  <a href="http://www.carolina.com">http://www.carolina.com</a>  CE-56-6716</p>	\$900-1000
<p>Life size. Top layer of muscles is removable for viewing blood vessels and nerves. Dissectible into 6 parts. Rotatable. Size: 39x26x105cm H. On stand with base.</p>	
<p><b>Stethoscope</b>  Delta Education  <a href="http://www.delta-education.com/">http://www.delta-education.com/</a>  190-5738</p>	\$8-9
<p>Use a stethoscope to investigate the heartbeat. Compare heart rate of a resting person versus after exercise. You can buy stethoscopes or make your own with a funnel and plastic tubing.</p>	
<p><b>Student Microscopes set of 12</b>  Lakeshore Learning Store  <a href="http://www.lakeshorelearning.com">http://www.lakeshorelearning.com</a>  CS547</p>	\$45-50

6 1/2" plastic microscopes are super-easy to use...and feature 60X, 80X and 100X magnification.

Targets standards in these areas:

- Conducting experiments
- Making quantitative observations
- Making measurements
- Using a variety of tools to collect and analyze information

## Video

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### **Bill Nye: Blood and Circulation**

\$35-40

Disney Education Products

<http://www.edustation.disney.com>

68A98VL00

Let's review the not so wimpy organ, the heart. Valves, blood cells, and the circulatory system work to pump it up...the heart that is.

Can borrow from the Alameda County Office of Education, some titles available at public libraries. Berkeley school teachers can borrow from the Central Media Library at Berkeley High School.

### **Bill Nye: Blood and Circulation DVD**

\$45-50

Disney Education Products

<http://www.edustation.disney.com>

77A04VL00

In "Blood & Circulation," Bill Nye becomes a real heart-throb when he talks about the not-so-wimpy organ, the heart. Valves, blood cells and the circulatory system work together to pump it up-- the heart that is. In addition to the complete 26-minute episode of "Blood & Circulation," this disk is loaded with incredible DVD features like:

- \*Fully indexed "chapters" correlated to National Science Standards.
- \*Interactive glossaries and quizzes.
- \*Bonus footage of never-before-seen segments, interviews, and de

### **Bill Nye: Bones & Muscles DVD**

\$45-50

Disney Education Products

<http://www.edustation.disney.com>

77A05VL00

In "Bones & Muscles," Bill muscles in to give more than just the bare bones about x-rays, the healing of broken bones, bone marrow, and the body's joints.

In addition to the complete 26-minute episode of "Bones & Muscles," this disk is loaded with incredible DVD features like:

- \*Fully indexed "chapters" correlated to National Science Standards.
- \*Interactive glossaries and quizzes.
- \*Bonus footage of never-before-seen segments, interviews, and demos.
- \*Spanish translation and closed-captioning.
- \*On-d

## **Bill Nye: Bones and Muscles**

Disney Education Products

<http://www.edustation.disney.com>

68A67VL00

In "Bones & Muscles," Bill muscles in to give more than just the bare bones about x-rays, the healing of broken bones, bone marrow, and the body's joints.

\$35-40

Some titles available at public libraries. Berkeley school teachers can borrow from the Central Media

## **Bill Nye: Cells**

Disney Education Products

<http://www.edustation.disney.com>

68A96VL00

Mad Scientist Bill Nye CELLebrates the basic unit that makes up all living organisms-the cell. This exCELLent program zooms in on DNA and creatures like amoebas and paramecia. All Bill Nye video titles are sold by Disney Educational Productions and are all \$39.95/each.

\$35-40

Some titles available at public libraries. Berkeley school teachers can borrow from the Central Media.

## **Bill Nye: Digestion**

Disney Education Products

<http://www.edustation.disney.com>

68A97VL00

The body's digestion system is like one big machine. Demonstrate the process with a steam engine that runs on cornflakes.

\$35-40

Can borrow from the Alameda County Office of Education, some titles available at public libraries. Berkeley school teachers can borrow from the Central Media Library at Berkeley High School.

## **Bill Nye: Digestion DVD**

Disney Education Products

<http://www.edustation.disney.com>

77A08VL00

Bill Nye explains how the body's digestive system is like a fine-tuned machine that turns food into energy. Bill demonstrates the process with a steam engine that runs on corn flakes. In addition to the complete 26-minute episode of "Digestion," this disk is loaded with incredible DVD features like:

\*Fully indexed "chapters" correlated to National Science Standards.

\*Interactive glossaries and quizzes.

\*Bonus footage of never-before-seen segments, interviews, and demos.

\*Spanish translation and closed-c

\$45-50

## **Bill Nye: Eyeball**

Disney Education Products

<http://www.edustation.disney.com>

68C38VL00

Focus your attention on the body's window to the world -- the eyeball. Visit a Seeing eye dog trainer and virtual reality designer, and see a 3-D movie demonstration. Suitable for middle school laser optics review.

\$35-40

Some titles available at public libraries. Berkeley school teachers can borrow from the Central Media

<p><b>Bill Nye: Forensics</b>  Disney Education Products  <a href="http://www.edustation.disney.com">http://www.edustation.disney.com</a>  68C74VL00</p>	<p>\$35-40</p>
<p>Join at the scene of the crime to investigate the world of forensic science. Study bloodprints, footprints, and DNA.</p>	<p>Some titles available at public libraries. Berkeley school teachers can borrow from the Central Media</p>
<p><b>Bill Nye: Garbage</b>  Disney Education Products  <a href="http://www.edustation.disney.com">http://www.edustation.disney.com</a>  68A60VL00</p>	<p>\$35-40</p>
<p>Dig up the dirt on and ever-expanding landfills from Florida to New York.</p>	<p>Some titles available at public libraries. Berkeley school teachers can borrow from the Central Media</p>
<p><b>Bill Nye: Germs</b>  Disney Education Products  <a href="http://www.edustation.disney.com">http://www.edustation.disney.com</a>  68A64VL00</p>	<p>\$35-40</p>
<p>Using foam models, the various types of germs and how they function are illustrated. The recurring character of "Mama Crust" motivates kids to brush their teeth, wash their hands, and cut way back on picking their noses.</p>	<p>Can borrow from the Alameda County Office of Education, some titles available at public libraries. Berkeley school teachers can borrow from the Central Media Library at Berkeley High School.</p>
<p><b>Bill Nye: Germs DVD</b>  Disney Education Products  <a href="http://www.edustation.disney.com">http://www.edustation.disney.com</a>  77A12VL00</p>	<p>\$45-50</p>
<p>In "Germs," Bill uses foam models to illustrate the various types of germs and how they function. The recurring character, "Mamma Crust," motivates kids to brush their teeth, wash their hands, and cut way back on picking their noses.</p>	
<p>In addition to the complete 26-minute episode of "Germs," this disk is loaded with incredible DVD features like:</p>	
<ul style="list-style-type: none"> <li>*Fully indexed "chapters" correlated to National Science Standards.</li> <li>*Interactive glossaries and quizzes.</li> <li>*Bonus footage of never-before-seen segments, interv</li> </ul>	
<p><b>Bill Nye: Heart</b>  Disney Education Products  <a href="http://www.edustation.disney.com">http://www.edustation.disney.com</a>  68C45VL00</p>	<p>\$35-40</p>
<p>Bill Nye checks out this important muscular pump's function in the body, by pulling nine "Gs" with the United States Navy's Blue Angels and chatting with Seattle Mariner Edgar Martinez.</p>	<p>Can borrow from the Alameda County Office of Education, some titles available at public libraries. Berkeley school teachers can borrow from the Central Media Library at Berkeley High School.</p>

## **Bill Nye: Ocean Life**

Disney Education Products

<http://www.edustation.disney.com>  
68A70VL00

The Science Guy knows everyone who's anyone on the ocean's food chain, from the tiny species at the bottom to the largest species at the top. Learn about ecosystems and the importance of small organisms such as coral, plankton, and kelp.

\$35-40

Can borrow from the Alameda County Office of Education, some titles available at public libraries. Berkeley school teachers can borrow from the Central Media Library at Berkeley High School.

## **Bill Nye: Ocean Life DVD**

Disney Education Products

<http://www.edustation.disney.com>  
77A16VL00

Bill goes underwater to talk about ocean ecosystems and the importance of small organisms such as coral, kelp, and plankton. Amazingly, these latter organisms are the food of huge whales, which gather them by straining thousands of tons of sea water through their mouths. In addition to the complete 26-minute episode of "Ocean Life," this disk is loaded with incredible DVD features like:

- \*Fully indexed "chapters" correlated to National Science Standards.
- \*Interactive glossaries and quizzes.
- \*Bonus footage

\$45-50

Some titles available at public libraries. Berkeley school teachers can borrow from the Central Media

## **Bill Nye: Respiration**

Disney Education Products

<http://www.edustation.disney.com>  
68A68VL00

Bill Nye the Science Guy gets aerobic about the importance of respiration when he jogs, bikes, swims, and scuba dives. Discover how to measure how much air each breath contains and make a model lung in a nifty home experiment. See a demonstration of how cigarette smoke can infiltrate and injure lungs.

\$35-40

Can borrow from the Alameda County Office of Education, some titles available at public libraries. Berkeley school teachers can borrow from the Central Media Library at Berkeley High School.

## **Bill Nye: Wetlands**

Disney Education Products

<http://www.edustation.disney.com>

Bill Nye sloshes across American wetlands and gets a little bit muddy while he shows us how these swamps, bogs, and marshes help control floods, naturally filter water, and provide a good home to lots of living things, especially wildlife

\$35-40

Some titles available at public libraries. Berkeley school teachers can borrow from the Central Media

## **Dragonfly TV Series One - DVD**

GPN Educational Media

<http://shopgpn.com/>  
SKU #: 897.1000D

\$350-400

DragonflyTV is devoted entirely to science for kids grades 4-7. But it's not like any science show you've ever seen - because it's real kids doing real science! In every episode, real kids tell about their own investigations - how they explore the science in the things they love to do.

This unit includes:

897.1001D - Investigate ! & 897.1002D - Wheels & 897.1003D - Animal Behavior & 897.1004D - Water & 897.1005D - Rocks & 897.1006D - Flight & 897.1007D - Weather & 897.1008D - Technology I & 897.1009D - Plants & 897.1010D - Air & 897.1011D - Human Behavior & 897.1012D - Space & 897.1013D - Human Body I

## **DragonflyTV Series Two - DVD**

\$350-400

GPN Educational Media

<http://shopgpn.com/>

SKU #: 897.2000D

DragonflyTV is devoted entirely to science for kids grades 4-7. But it's not like any science show you've ever seen - because it's real kids doing real science! In every episode, real kids tell about their own investigations - how they explore the science in the things they love to do.

This unit includes:

897.2001D - Investigate II  
897.2002D - Structures  
897.2003D - Sports Science  
897.2004D - Spinning  
897.2005D - Propulsion  
897.2006D - Human Body II  
897.2007D - Sound  
897.2008D - Technology II  
897.2009D - Ecosystems  
897.2010D - Underwater  
897.2011D - Mammals  
897.2012D - Earth Explorations  
897.2013D - Creepy Crawlies

## **Ecology & the Barn Owl**

\$25-30

Genesis Inc

<http://www.pellet.com>

BOV

Take a journey with David Carter and learn the basics of Ecology and a close look at the natural history of the Barn Owl. You will observe young owlets as they are raised by their parents and learn endless information about this most fascinating "Hunter of the Night". Excellent footage taken from a nest site. See an Owlet swallow a Mouse Whole!! See the Parents bringing in mice to the young owlets and extensive footage of the young until they leave the nest. Best of all you get to see an Owl Regurgitating a

## **Human Body in Action: Cells DVD**

\$45-50

Carolina Biological

<http://www.carolina.com>

493527A

Human Body in Action™ focuses on the human body from cells to systems, including the skeletal and muscular systems, the circulatory and respiratory systems, and much more. Each video features kids having real-world experiences, along with stunning microphotography and clear, colorful graphics. A recurring theme in the series is the hierarchy of the human body: cells, organs, and organ systems. Every program includes an easy-to-replicate, hands-on activity and an interview with an expert in a particular area of science. This series is based on the concepts outlined in the National Science Education Standards for life science (Structure and Function in Living Systems; Reproduction and Heredity; Regulation and Behavior; and Diversity and Adaptations of Organisms). Eight-volume series. Each video is 23 minutes. Close-captioned. 2001.

## **Liftoff to Learning Episode 4: All Systems Go**

\$15-20

NASA CORE

<http://core.nasa.gov>

003.1-19V

Presents the astronauts on orbit during the Spacelab Life Sciences mission discussing some of the physiological changes that occur in the human body while in a microgravity environment and attempts to answer important questions on how the body readapts to Earth's environment. The videotape shows research conducted aboard the Space Shuttle on six systems that examine the heart, lungs, blood, muscles, cells, and the immune system, among others. This program is segmented, enabling teachers to extract topics that are most relevant to current classroom studies. Grade 5-12. 34 minutes.

## **Skeleton Eyewitness Video**

\$10-15

DEMCO Library & School Supply

<http://www.demco.com>

WL17165460

Eyewitness Series video about skeletons as seen on PBS.

## **The human body: the inside scoop**

FREE

Castro Valley Library

<http://aclibrary.org/branches/csv/castrovalleyhome.asp>

Vid J612 HUMAN

A Bill Nye Video that is only available in libraries.

Fremont, Albany,  
Dublin, Castro Valley,  
and Centerville.  
These videos are  
popular and are often  
checked-out.

## **Trees**

\$25-30

Teacher's Video Company

<http://www.teachersvideo.com>

Product # : 353867

From bonzais to huge sequoias, trees are amazingly strong, resilient, and resourceful life forms. How do trees communicate with each other? How do experts determine the age of trees? What is the primary function of bark? How do roots work? Why are trees important to human beings? Discover the answers!