

INDEX TO VOLUME 44

NUMBERS 1 THROUGH 9

About the Index

Everything in Volume 44 is covered by this index except filler items.

This is a multiple index; that is, an item may be indexed in two or more places to ensure easy access.

Entries in the Subject portion are keyed to sections in the Title index as follows: A, articles; F, features; L, letters to the editor; E, editorials. The numbers give the issue (number) and page in the journal. You may go directly to the page in the journal, of course, or you may consult the Title Index to discover whether the item is the one you are seeking.

The second part of the Subject index groups books and audiovisual materials reviewed in Volume 44 of *ABT*. Authors and editors of the book (not the reviewers) are named in parentheses preceding the issue and page reference. Initial articles (a, an, the) of book titles are not considered in arranging titles; that is, the title begins with the first substantive word.

Subjects

Acoustic emissions.....2:118F
Advanced placement biology
.....5:286A
Aging.....5:264A, 8:502L
Agriculture,
in China.....3:157A

The index has three parts: subjects, titles, and authors. Alphabetizing is letter-by-letter (not word-by-word); for example, "Educational" would precede "Education theory."

Amazon.....3:183F
Animal behavior,
African clawed frog.....9:549F
birds.....3:184F
crayfishes.....2:121F
turtles.....7:406A
Animal parts, dried.....1:48F
Anthrax disease.....1:51F
Arkansas,
creationism decision.....3:172F
Armadillos.....4:235F
Art,
use in biology teaching.....2:112
Bacteria, antibiotic-resistant...8:490F
Bacteriological media.....8:484F
Beans, experiments with.....1:51F
Behavior, of
African clawed frog.....9:549F
birds.....3:184F
crayfishes.....2:121F
turtles.....7:406A
Betalains.....5:308F
Bias in science classrooms...5:295F
Bioethics
...3:148A, 3:180F, 5:270A, 5:280A
Biology,
advanced placement.....5:286A
community college.....6:369F
computers in
...5:298F, 6:374F, 7:429F, 8:476A
molecular.....8:495F
olympics.....4:233F, 8:498F
reproductive.....7:434F
Biotechnology.....9:517E
Birds,
flightless.....3:184F
study of.....1:14A
Bones.....2:118F, 5:303F
Books.....3:182F
Brain,
research.....4:211E
sex differences in.....7:434F
BSCS-style laboratory.....9:520A
Cancer.....4:236F
Careers.....3:168A
Chemotaxonomy.....5:308F
China, People's Republic of...3:157A

Chlamydia trachomatis
.....2:116F, 5:305F
Chromosome mapping.....7:441F
Chromosomes
...2:100A, 5:304F, 5:311F, 7:441F
CIBE
...5:298F, 6:374F, 7:429F, 8:476A
Citizenship
...6:327E, 6:337A, 6:346A, 6:358A
Classification,
teaching.....9:547F
Collection,
of crayfishes.....2:121F
Color-lift transparencies.....1:40F
Community colleges.....6:369F
Computers in biological education
...5:298F, 6:374F, 7:429F, 8:476A
Crayfishes.....2:121F, 7:440L
Creation, special.....2:85A
Creationism,
Arkansas decision.....3:172F
evolution controversy
1:25A, 2:85A, 7:413A, 8:509F, 9:528A
Creationist movement.....9:528A
Crustaceans,
parasitic on fishes.....7:438F
Cryptogamic soil.....8:472A
Curriculum reform.....1:37F, 7:427F
Decisionmaking.....3:148A
Deserts.....8:472A
Design, guided.....1:14A
Disasters, environmental.....1:21A
Dissections.....5:312F
DNA.....2:100A, 8:495F, 9:552F
Drama, use in classroom
.....2:90A, 5:270A
Education,
biology.....1:37F, 5:286A
career.....3:168A
in China.....3:157A
citizenship
...6:327E, 6:337A, 6:346A, 6:358A
community college.....6:369F
crisis in.....6:328A, 8:459E
environmental.....8:460A
minority students..3:168A, 6:351A
pre-college science.....5:263E

- secondary...2:80A, 2:94A, 2:111A,
.....3:153A, 3:168A, 5:286A
women.....6:351A
Eggs.....5:304F
Enzymes.....5:303F
Environment,
 Kepone threat.....8:466A
Equilibration theory.....7:394A
Evaluation,
 computer software.....7:429F
Evolution,
 and equilibration.....7:394A
 fossil record.....2:85A, 2:118F
 model.....9:543F
 theory vs. fact.....1:25A, 7:413A
Fat.....5:304F
Field studies
 1:13E, 1:14A, 1:21A, 1:44F, 4:219A
Flood geology.....2:85A
Food webs.....3:186F
Forests.....1:44F
Frog,
 African clawed.....9:549F
 dissection.....5:312F
Fruit fly,
 chromosome "mystery"....7:441F
 Mediterranean.....1:42F
Future,
 NABT's.....9:518E
Games
 1:57F, 3:185F, 5:270A, 9:547F
Genetic assimilation.....7:394A
Genetic Service Centers.....2:128F
Genetics,
 disease.....2:90A
 fiction and reality.....2:79E
 inquiry activity.....7:441F
 Mendelian.....2:80A
 problem solving.....9:525A
 resources.....2:128F
 teaching.....2:80A, 2:90A, 2:94A,
 2:100A, 7:441F, 8:495F, 9:552F
Gifted students, biology for
 5:286A
GRID.....7:434F
Guided design.....1:14A
Guthrie, Woody.....2:90A
Health,
 education.....3:168A
 occupational.....2:111F
Heart attacks.....4:236F
Hemispheric preference.....5:291A
Human Sciences Program.....7:427F
Humor as a teaching strategy
 4:212A
Huntington's disease.....2:90A
Identification,
 birds.....1:14A
 crayfishes.....2:121F
 plants.....1:33A
Interdisciplinary instruction
 7:421A
Invertebrates,
 poem to.....9:Cover 3P
Iron deficiency.....2:118F
Kepone.....8:466A
Laboratory investigations,
 beans.....1:51F
 BSCS-style.....9:520A
 by students.....1:55F
 chemotaxonomy.....5:308F
 crayfishes.....2:121F
 frog.....5:312F, 9:549F
 non-leguminous plants....4:229A
 plant tissue staining.....8:487F
 slime molds.....2:119F
 transpiration.....4:242F
 turtles.....7:406A
 wildlife resources.....4:224A
Land use.....3:164A
Learning style.....5:291A
Life,
 origin of.....9:543F
 vs. non-life.....7:437F
Marsupials.....2:117F
Media, bacteriological.....8:484F
Mental illness.....3:184F
Methanogens.....3:193F
Minority students....3:168A, 6:351A
Models,
 chromosome.....5:311F
 DNA.....2:100A
 evolution.....9:543F
 land use.....3:164A
 punctuated equilibrium....2:118F
Molds, slime.....2:119F
Molecular biology.....8:495F
Mushrooms,
 magic in.....1:13E, 7:440L
NABT..1:37F, 6:369F, 8:509F, 9:518E
Nelson, Todd.....5:306F
Nitrogen fixation.....4:229A
Occupational health.....2:111F
Oil spill.....1:21A
Olympics, biology...4:233F, 8:498F
Overhead projector transparencies
 1:39F, 1:40F, 1:42F, 3:191F, 3:193F
 5:300F, 7:437F, 7:438F
Peace.....8:502L
Pedigree, use in classroom...2:90A
People's Republic of China...3:157A
Pheromones.....2:118F
Photosynthesis, bacterial....5:278A
Piaget, Jean.....7:394A
Planning,
 land use.....3:164A
Plants,
 non-leguminous.....4:229A
 poisonous.....1:33A
 surprise.....5:304F
 tissue stain.....8:487F
 transpiration.....4:242F
Poetry.....9:Cover 3P
Population,
 problems of.....1:57F
Poisonous plants.....1:33A
Problem solving,
 genetics.....9:525A
 "Rag doll" method.....1:51F
Reproductive biology.....7:434F
Reproductive process,
 evolutionary significance....9:543
 of crayfishes.....2:121F
 of marsupials.....2:117F
Research,
 brain.....4:211E, 7:393E
 claims in biology teaching...7:393E
 educational.....9:517E
Revolution,
 cultural.....3:195F
 second industrial.....3:147E
Risk assessment.....8:460A
Science,
 and pride.....8:502L
 and religion
 1:25A, 2:85A, 7:413A, 8:509F
 bias.....5:295F
 in China.....3:157A
 pre-college.....5:263E
 and society.....3:180F, 5:270A,
 5:280A, 6:327E, 6:328A, 6:337A,
 6:346A, 6:351A, 6:358A
 schoolyard.....3:153A
 "Scientific" creationism.....9:528A
Slime molds.....2:119F
Social issues,
 inclusion in biology curriculum
 1:37F, 3:180F
Software,
 Evaluation of.....7:429F
Soil crusts.....8:472A
Space shuttle.....5:306F
Special creation.....1:25A, 2:85A
Sprayer.....1:51F
Students,
 minority high school.....3:168A
 space shuttle project.....5:306F
Succession,
 teaching with forests.....1:44F
Taxonomy,
 teaching.....9:547F
Teachers,
 and peace.....8:502L
 attitudes of.....7:421A
Teaching,
 with humor.....4:212A
 by students.....1:55F
 changes in.....1:37F, 6:370F
 theories.....7:394A, 7:413A
Textbooks,
 treatment of aging
 5:264A, 8:502L
 treatment of evolution in...1:25A
Theories,
 psychological.....7:394A
Toluidine Blue.....8:487F
Transparencies, projector
 crustaceans.....7:438F
 guidelines for development
 1:39F
 life vs. non-life.....7:437F
 Mediterranean fruit fly.....1:42F
 methanogens.....3:193F
 method for making.....1:40F
 pictorial riddles.....5:300F
 ways to improve.....3:191F
Transpiration laboratory exercise
 4:242F
Travel, student
 Big Bend, Texas.....4:219A
 Mexico.....1:21A
Trees.....1:44F
Turtles,
 behavior of.....7:406A

Vaccines, new sources of 4:235F
 Visual aids,
 bird study skins 1:14A
 dried animal parts 1:48F
 Wildlife,
 problems 1:57F, 4:224A
 resources 4:224A
 Workshops,
 genetics 2:128F

REVIEWS

Authors and editors of the book, and the producers of an audiovisual, are mentioned in the parentheses preceding the issue and page number, not the reviewer.

Audiovisuals

Biology of the fishes (Barr Films) 3:202R; Body system series (Marsh Film) 2:131R; Carnivorous plants (Stan-ton Films) 5:314R; Choices (The Conser-vation Foundation) 3:197R; Genetics: how life remakes life (Sunburst Com-munications) 1:59R; Genetics learning system (University Park Press) 2:131R; The human body: endocrine system (Coronet Films) 5:314R; The human body: systems working together (Coronet Films) 5:314R; Island of the moon: the nature of things (Macmillan Films Inc.) 5:318R; The last chance (Bullfrog Films) 2:131R; Lichens: plant partners (Photocom Productions) 3:197R; Prenatal diagnosis by amniocentesis (Golden Door Productions) 1:59R; Plant biology (Barr Films) 2:132R; Principles of entomology (Entomological Society of America) 2:132R; Solar promise (Bullfrog Films) 2:132R

Behavior

Biology of behavior (Brown) 7:443R; Modern ethology: the science of animal behavior (Barnett) 1:60R; What about behavior (Davis) 1:60R.

Biochemistry

Understanding enzymes (Palmer) 6:378R.

Botany

The Audubon Society field guide to North American mushrooms (Lincoff) 7:443R; Edible mushrooms (Christen-sen) 4:246R; Historical plant geography (Stott) 8:504R; Secrets of the venus's fly trap (Wexler) 1:61R.

Cell and Molecular Biology

An atlas of cells and tissue (Fujita, Tanaka, and Tokunaga) 9:556R; Biotechnology: a review and annotated bibliography (Rothman, Stanley, Thompson, and Towalski) 2:133R; The cellular basis of the immune response (Golub) 8:504R.

Chemistry

Chemistry: an introduction to general, organic and biological chemistry (Widon and Edelstein) 5:315R.

Ecology and Environmental Biology

The amateur naturalist's handbook (Brown) 1:61R; Ecology for en-vironmental sciences: biosphere, ecosystems and man (Anderson) 4:247R; A matter of degree: heat, life and death (Kavaler) 4:247R; Shallow waters: a year on Cape Cod's Pleasant Bay (Sargent) 4:246R.

Educational and Professional Concerns

Don't blame the kids (Maeroff) 6:378R; Educators on trial: the identification and prevention of classroom malpractice (Leary) 2:133R.

Evolution

The making of mankind (Leakey) 5:315R; Man's place in evolution (British Museum of Natural History) 6:378R; Missing links: the hunt for the earliest man (Reader) 2:133R; The new evolutionary timetable: fossils, genes and the origin of species (Stanley) 8:504R; Origin of species (The British Museum of Natural History) 4:248R; Understanding evolution (Hanson) 4:248R.

General Biology

Biology all around you (Pressey) 7:443R; Essential biology (Hendrickson) 6:379R; Guide to bees and honey (Hooper) 2:135R; Insects and allergy: and what to do about them (Frazier and Brown) 1:62R; Instinct & intelligence (Hinde and Hinde) 2:135R; Microscopes and their uses (Marmasse) 5:316R; Prin-ciples of biology laboratory manual (Unbehaun, Nord, Weeks, and Tyser) 1:62R; Statistical methods in biology (Bailey) 6:379R.

Genetics

The DNA story, a documentary history of gene cloning (Watson and Tooze) 8:505R; The double-edged helix: science in the real world (Cavaliere) 5:316R; An introduction to genetic analysis (Suzuki, Griffiths, and Lewontin) 2:135R; The political implications of human genetic technology (Blank) 4:248R; Principles of genetics (Gardner and Snustad) 2:134R.

Health

Drugs and the human body with impli-cations for society (Liska) 2:135R; Health instruction: theory and applica-

The index has three parts: subjects, titles, and authors. Alphabetizing is letter-by-letter (not word-by-word); for example, "Educational" would precede "Education theory."

tion (Fodor and Dalis) 3:198R; Steroids: keys to life (Witzmann) 4:249R; Teaching nutrition: a review of programs and research (Nestor and Glotzer) 5:316.

History and Philosophy

The nobel duel (Wade) 8:506R.

Microbiology

Microbes in action: a laboratory manual of microbiology (Seeley and VanDemark) 9:556R; Selected exercises from microbes in action: a laboratory manual of microbiology (Seeley and VanDemark) 9:556R; The wild mammals of Missouri (Schwartz and Schwartz) 9:557R.

Physiology and Anatomy

Basic anatomy for the allied health professions (Montgomery) 3:198R; Essential human anatomy: a text atlas (Crouch) 8:507R; Eyes and seeing (Rahn) 4:249R; Introduction to human physiology (Griffiths) 2:136R; Left brain, right brain (Springer and Deutsch) 2:136R; The skeleton and movement (Ward) 8:507R.

Related Fields

Better science through safety (Gerlovich and Downs) 3:199R; The snouters: form and life of the rhinogrades (Stumpke) 4:249R.

Social and Ethical Issues

The custom-made child? Women centered perspectives (Holmes, Hoskins, and Gross) 3:199R; Ethics teaching in higher education (Callahan and Bok) 2:137R; The god that limps: science and technology in the eighties (Norman) 8:508R; A guide to the culture of science, technology, and medicine (Durbin) 2:136R; Science and the question of human equality: AAAS sym-

posium 56 (Collins, Wainer, and Bremner) 4:250R; A search for environmental ethics: an initial bibliography (Anglemyer, LeMaistre, and Seagraves) 2:137R.

Zoology

General zoology: laboratory guide, complete version (Woodsdalek and Lytle) 4:250R; Lessons from nature: Dr. Fox's fables (Fox) 3:199R; Mammal collectors' manual: a guide for collecting, documenting, and preparing mammal specimens for scientific research (Nagorsen and Peterson) 1:63R; Physiology of mammals and other vertebrates (Marshall and Hughes) 1:63R; Poisonous snakes (Phelps) 1:64R; Practical invertebrate zoology (Dales) 5:317R; Vertebrate endocrinology (Norris) 3:200R; Whales (Bonner) 7:444R.

TITLES

Editorials

Biotechnology and educational research, by Alan J. McCormack9:517E
 The crisis in science education, by Alan J. McCormack.....8:459E
 Education for citizenship: a shared vision, by Manert Kennedy...6:327E
 Fiction and reality in genetics' brave new world, by Alan J. McCormack2:79E
 "A look to the future" revisited, by Jerry Resnick.....9:518E
 The major purpose of pre-college science, by Robert E. Yager.5:263E
 A need for caution in use of research claims to guide biology teaching, by Joseph D. Novak.....7:393E
 Science education for the 80s: human brain research will make change inevitable, by Charles R. Barman4:211E
 The second industrial revolution is here, by Alan J. McCormack3:147E
 There is magic in mushrooms, by Alan J. McCormack.....1:13E

Articles

Attitudes of science and social studies teachers toward interdisciplinary instruction, by Charles R. Barman, Ronald E. Harshman, and John J. Rusch7:421A
 Bacterial photosynthesis without chlorophyll, by David Bardell5:278A
 Basking behavior of painted turtles, by Stephen J. Zipko.....7:406A
 A BSCS-style laboratory approach for university general biology, by William H. Leonard.....9:520A
 Citizenship and science education, by Rodger W. Bybee.....6:337A
 Computers in biological education, by Theodore J. Crovello.....8:476A
 The creationist movement, by Dean R. Fowler.....9:528A
 The crisis in biology education, by Robert E. Yager.....6:328A
 Crossing two cultures in the education of citizens, by John J. Patrick and Richard C. Remy.....6:346A
 Cryptogamic soil crusts in the deserts of North America, by Samuel R. Rushforth and Jack D. Brotherson8:472A
 The disadvantaged majority: biology education for women and minorities, by Jane Butler Kahle.....6:351A
 Difficulties experienced by high school students while learning basic Mendelian genetics, by James H. Stewart.....2:80A
 Difficulties in genetics problem solving, by Richard R. Tolman.....9:525A
 Dramatizing the life of Woody Guthrie and his genetic disorder, Huntington's disease, by John F. Knight and Katherine Ann Lucas...2:90A
 Education for citizenship: issues of science and society, by Faith M. Hickman.....6:358A
 Evolution, equilibration, and biology instruction, by Anton E. Lawson7:394A
 The fact and the theory of evolution, by Stuart W. Hughes.....1:25A
 A hands-on model of DNA, by Sherry A. Clark.....2:100A
 Health science career education for minority junior high school students, by Nancy J. Edwards and Ellen J. Cohen3:168A
 Hemispheric preference: the newest element of learning style, by Rita Dunn, David P. Cavanaugh, Betty M. Eberle, and Robert Zenhausern5:291A
 Human genetics education in the high school: a pilot program, by Paula K. Haddow.....2:94A
 Humor as a teaching strategy, by James H. Wandersee.....4:212A

Incorporating land use planning into your environmental science curriculum, by Terri K. Clark 3:164A

An interdisciplinary course in Big Bend National Park, Texas, by Alton L. Biggs 4:219A

An introductory exercise for courses in birding, by James E. Applegate 1:14A

Kepone—a case study of an environmental legacy, by David E. Kidd and William M. Hadley 8:466A

Nitrogen fixation by non-leguminous plants, by Charlene Van Raalte 4:229A

Please don't eat the daisies (a guide to harmful plants), by Robert Manor 1:33A

Project advance biology: an alternative to advanced placement biology, by Salvatore Tocci 5:286A

Responsible decisionmaking: a tool for developing biological literacy, by Thomas R. Mertens and Jon R. Hendrix 3:148A

Risk and risk assessment in environmental education, by Daniel D. Chiras 8:460A

Schoolyard science, by Laddie J. Bick 3:153A

Science and education in the People's Republic of China, by Michael K. Hansen and Stephen J. Risch 3:157A

Special creation and the fossil record: the central fallacy, by Kenneth R. Miller 2:85A

Teacher-made science games, by Charles R. Coble and Paul B. Hounshell 5:270A

Teaching bioethics from an interdisciplinary perspective, by Rivers Singleton, Jr. and D. Heyward Brock 5:280A

Teaching biology field courses in the wake of environmental disasters, by Bart J. Baca 1:21A

Teaching theories: the evolution-creation controversy, by Robert Root-Bernstein and Donald L. McEachron 7:413A

Treatment of aging in secondary school biology textbooks: a neglected phenomenon, by L.R. Krupka and A.M. Vener 5:264A

Wildlife resources applied to contemporary goals in biology education, by Clark E. Adams 4:224A

Writing in biology: one way to improve analytical thinking, by E. Russell TePaske 2:98A

Features

Antibiotic-resistant bacteria, by Nevin E. Longenecker and Dan Oppenheimer 8:490F

Are we risking a cultural revolution?, by Edward J. Kormondy 3:195F

Armadillos can come in handy, by Maura C. Flannery 4:235F

Behavior experiments with the African clawed frog, by Christine L. Kolb 9:549F

Bias in the science classroom, by Frances F. Ekern, Michael Kamrin, L.R. Krupka, and Andrew McClary 5:295F

Biology and art: interdisciplinary challenges, by Alan J. McCormack and Thomas Smucker 2:112F

Biology in the news, by Maura C. Flannery 5:303F

Biology students become biology teachers, by Sr. Virginia Marie Callen 1:55F

Books and biology, by Maura C. Flannery 3:182F

CIBE Systems, by Theodore J. Crovello 6:374F

Color-coded dissections: an aid to communication in the biology laboratory, by G.W. Kennemer 5:312F

Computer software evaluation: who, when, where, why?, by Theodore J. Crovello 7:429F

Computers in biological education: the future is now!, by Theodore J. Crovello 5:298F

Crayfishes in the classroom: a new look at some old friends, by Gary S. Phillips 2:121F

Creationism in the schools: the Arkansas decision, by Judge William Overton 3:172F

Dried animal parts as visual aids, by Paul C. Burgoyne 1:48F

An exercise to promote the premise that prolific people populations produce potent problems, by Raymond Clark Telfair, II 1:57F

The fast-moving field of molecular biology, by Maura C. Flannery 8:495F

Filling in the picture, by Maura C. Flannery 9:552F

Food web analysis: an ecosystem approach, by Steve K. Alexander 3:186F

High school student's experiment goes into space, by Wayne A. Moyer 5:306F

How good are "instant" bacteriological media?, by John P. Sacco 8:484F

Human genetics: educational resources for the classroom, by Karen Greendale, Kim Kelly, and Peter Panyon 2:128F

The human sciences program and the future, by Jack L. Carter 7:427F

If not NABT, then who?, by Wayne A. Moyer 1:37F

An inquiry activity for genetics using chromosome mapping, by William H. Leonard and George Snodgrass 7:441F

Inventive thinking in biology, by Alan J. McCormack 4:233F

A laboratory exercise to assess transpiration, by Gould F. Schrock 4:242F

Laboratory investigations using the anthracnose disease of beans, by Robert M. Arnold and Bernadette M. Lyons 1:51F

A laboratory on chemotaxonomy: the systematic distribution of betalains, by Thomas F. Daniel and Timothy Johns 5:308F

The mediterranean fruit fly, by David Moore 1:42F

Meet *ABT's* newest department, by Alan J. McCormack 1:39F

A method for making color-lift transparencies, by Alan J. McCormack 1:40F

New developments in reproductive biology, by Maura C. Flannery 7:434F

"Number, please", by Alton L. Biggs 3:185F

Occupational health: its relevance to high school students, by Edward Calabrese 2:111F

Pictorial riddles—transparency master, by Charles R. Barman 5:300F

Putting science and society in your classroom, by Paul C. Beisenherz 3:180F

The index has three parts: subjects, titles, and authors. Alphabetizing is letter-by-letter (not word-by-word); for example, "Educational" would precede "Education theory."

The role of community college biologists within NABT, by Donald S. Emmeluth.....6:369F

Simple chromosome models, by Russell F. Wells.....5:311F

Slimes molds in the laboratory, by Steven L. Stephenson.....2:119F

Some ideas from students, by Alan J. McCormack.....8:498F

Some ways to improve your overhead projection transparencies, by Charles Barman.....3:191F

Statement of Wayne A. Moyer, meeting of the commonwealth of Virginia board of education, July 1, 1982, Richmond, VA, by Wayne A. Moyer.....8:509F

Teaching succession with forests, by David R. Stronck.....1:44F

Teaching taxonomy—a different approach, by Earle V. Core, Jr.9:547F

Toluidine blue: a simple, effective stain for plant tissues, by Alfred J. Parker, Edward F. Haskins, and Ingrith Deyrup-Olsen.....8:487F

Transparency master: crustaceans parasitic on fishes, by Lauritz A. Jensen.....7:438F

Transparency master: methanogens—one type of archaeobacterium, by David Moore and Alan J. McCormack.....3:193F

Turning teaching around, by Maura C. Flannery.....6:370F

Using an overhead projector to initiate discussion of life and non-life, by Charles R. Barman.....7:437F

What's news in biology, by Maura C. Flannery.....2:116F

Why reproduce? a demonstration of evolution and the origin of life, by Alan R.P. Journet.....9:543F

Letters

Aging in biology textbooks, by R.A. Dyer and N. Kauss.....8:502L

Biology teachers and peace, by Verle Punke.....8:502L

Magic in mushrooms, by Richard Storey.....7:440L

Pride and science, by Mary Frances Harper.....8:502L

Use of crayfishes, by F. Barbara Orlans.....7:440L

Poetry

An invertebrate's night before Christmas, by Patricia M. Floersch.....9:Cover 3P

Reviews

The amateur naturalist's handbook (Brown).....1:61R

An atlas of cells and tissue (Fujita, Tanaka, and Tokunaga)....9:556R

The Audubon Society field guide to North American mushrooms (Lincoff).....7:443R

Basic anatomy for the allied health professions (Montgomery)....3:198R

Better science through safety (Gerlovich and Downs).....3:199R

Biology all around you (Pressey).....7:443R

Biology of behavior (Brown).....7:443R

Biology of the fishes (Barr Films).....3:202R

Biotechnology: a review and annotated bibliography (Rothman, Stanley, Thompson, and Towalski).....2:133R

Body system series (Marsh Film).....2:131R

Carnivorous plants (Stanton Films).....5:314R

The cellular basis of the immune response (Golub).....8:504R

Chemistry: an introduction to general, organic and biological chemistry (Widon and Edelstein)....5:315R

Choices (The Conservation Foundation).....3:197R

The custom-made child? Women centered perspectives (Holmes, Hoskins, and Gross).....3:199R

The DNA story, a documentary history of gene cloning (Watson and Tooze).....8:505R

Don't blame the kids (Maeroff).....6:378R

The double-edged helix: science in the real world (Cavaliere).....5:316R

Drugs and the human body with implications for society (Liska).....2:135R

Ecology for environmental sciences: biosphere, ecosystems and man (Anderson).....4:247R

Edible mushrooms (Christensen).....4:246R

Educators on trial: the identification and prevention of classroom malpractice (Leary).....2:133R

Essential biology (Hendrickson).....6:379R

Essential human anatomy: a text atlas (Crouch).....8:507R

Ethics teaching in higher education (Callahan and Bok).....2:137R

Eyes and seeing (Rahn).....4:249R

General zoology: laboratory guide, complete version (Woodsdalek and Lytle).....4:250R

Genetics: how life remakes life (Sunburst Communications).....1:59R

Genetics learning system (University Park Press).....2:131R

The god that limps: science and technology in the eighties (Norman).....8:508R

Guide to bees and honey (Hooper).....2:135R

A guide to the culture of science, technology, and medicine (Durbin).....2:136R

Health instruction: theory and application (Fodor and Dalis).....3:198R

Historical plant geography (Stott).....8:504R

The human body: endocrine system (Coronet Films).....5:314R

The human body: systems working together (Coronet Films)....5:314R

Insects and allergy: and what to do about them (Frazier and Brown).....1:62R

Instinct & intelligence (Hinde and Hinde).....2:135R

An introduction to genetic analysis (Suzuki, Griffiths, and Lewontin).....2:135R

Introduction to human physiology (Griffiths).....2:136R

Island of the moon: the nature of things (Macmillan Films Inc.)....5:318R

The last chance (Bullfrog Films).....2:131R

Left brain, right brain (Springer and Deutsch).....2:136R

Lessons from nature: Dr. Fox's fables (Fox).....3:199R

Lichens: plant partners (Photocom Productions).....3:197R

The making of mankind (Leakey).....5:315R

Mammal collectors' manual: a guide for collecting, documenting, and preparing mammal specimens for scientific research (Nagorsen and Peterson).....1:63R

Man's place in evolution (British Museum of Natural History).....6:378R

A matter of degree: heat, life and death (Kavaler).....4:247R

Microbes in action: a laboratory manual of microbiology (Seeley and VanDemark).....9:556R
 Microscopes and their uses (Marmasse)5:316R
 Missing links: the hunt for the earliest man (Reader).....2:133R
 Modern ethology: the science of animal behavior (Barnett).....1:60R
 The new evolutionary timetable: fossils, genes and the origin of species (Stanley).....8:504R
 The nobel duel (Wade).....8:506R
 Origin of species (The British Museum of Natural History).....4:248R
 Physiology of mammals and other vertebrates (Marshall and Hughes)1:63R
 Plant biology (Barr Films).....2:132R
 Poisonous snakes (Phelps).....1:64R
 The political implications of human genetic technology (Blank)4:248R
 Practical invertebrate zoology (Dales)5:317R
 Prenatal diagnosis by amniocentesis (Golden Door Productions)1:59R
 Principles of biology laboratory manual (Unbehaun, Nord, Weeks, and Tyser).....1:62R
 Principles of entomology (Entomological Society of America)2:132R
 Principles of genetics (Gardner and Snustad).....2:134R
 Science and the question of human equality: AAAS symposium 56 (Collins, Wainer, and Bremner)4:250R
 A search for environmental ethics: an initial bibliography (Anglemyer, LeMaistre, and Seagraves)2:137R
 Secrets of the venus's fly trap (Wexler)1:61R
 Selected exercises from microbes in action: a laboratory manual of microbiology (Seeley and VanDemark).....9:556R
 Shallow waters: a year on Cape Cod's Pleasant Bay (Sargent).....4:246R
 The skeleton and movement (Ward)8:507R
 The snouters: form and life of the rhinogrades (Stumpke).....4:249R

Solar promise (Bullfrog Films)2:132R
 Statistical methods in biology (Bailey)6:379R
 Steroids: keys to life (Witzmann)4:249R
 Teaching nutrition: a review of programs and research (Nestor and Glotzer).....5:316R
 Understanding enzymes (Palmer)6:378R
 Understanding evolution (Hanson)4:248R
 Vertebrate endocrinology (Norris)3:200R
 Whales (Bonner).....7:444R
 What about behavior (Davis)1:60R
 The wild mammals of Missouri (Schwartz and Schwartz)....9:557R

Authors

Adams, Clark E.....4:224A, 9:557R
 Akey, Rosalie J.....3:199R
 Alexander, Steve K.....3:186F
 Andersen, Hans O.....2:135R
 Anderson, Neal W.....1:61R
 Applegate, James E.....1:14A
 Armstrong, Terry.....2:136R
 Arnold, Robert M.....1:51F
 Ault, Wayne.....3:197R
 Baca, Bart J.....1:21A
 Bardell, David.....5:278A
 Barman, Charles R.....3:191F, 4:211E, 5:300F, 7:421A, 7:437F
 Beisenherz, Paul C.....3:180F
 Bicak, Laddie J.....3:153A
 Biggs, Alton L.....3:185F, 3:199R, 4:219A, 8:508R
 Brock, D. Heyward.....5:280A
 Brotherson, Jack D.....8:472A
 Brown, Lewis H.....1:63R
 Bryson, Emily M.....1:59R
 Burgoyne, Paul C.....1:48F
 Butterfield, Charles H.....2:137R
 Bybee, Rodger W.....6:337A
 Calabrese, Edward.....2:111F
 Callen, Sr. Virginia Marie.....1:55F
 Carter, Jack L.....7:427F
 Cavanaugh, David P.....5:291A
 Chang-Van Horn, Dorothy.....2:132R, 3:198R
 Chin, Arlene H.....2:136R
 Chiras, Daniel D.....8:460A
 Clark, Sherry A.....2:100A
 Clark, Terri K.....3:164A
 Coble, Charles R.....5:270A
 Cohen, Ellen J.....3:168A

Cole, Thomas A.....2:134R
 Core, Earle V., Jr.....9:547F
 Crovello, Theodore J.....5:298F, 6:374F, 7:429F, 8:476A
 Daniel, Thomas F.....5:308F
 Deyrup-Olsen, Ingrith.....8:487F
 Dunn, Rita.....5:291A
 Dwyer, Donna.....5:314R
 Dwyer, Sr. Paulinus.....1:61R
 Dyer, R.A.....8:502L
 Eberle, Betty M.....5:291A
 Edwards, Nancy J.....3:168A
 Ekern, Frances F.....5:295F
 Emmeluth, Donald S.....6:369F
 Finstad, Carl D.....8:504R
 Flannery, Maura C.....2:116F, 3:182F, 4:235F, 5:303F, 6:370F, 7:434F, 8:495F, 9:552F
 Flint, Thelma J.....3:199F
 Floersch, Patricia M.....9:Cover 3P
 Fowler, Dean R.....9:528A
 Frair, Wayne.....2:133R, 3:197R
 Fraulo, Anne.....1:60R
 Futrell, Robert G.....1:62R
 Gaskins, O.K.....2:133R, 7:443R
 Glauser, Charlotte.....8:505R
 Goldstein, Philip.....1:63R
 Greendale, Karen.....2:128F
 Greene, Joyce G.....2:135R
 Haddow, Paula K.....2:94A
 Hadley, William M.....8:466A
 Haman, A.C.....1:64R
 Hamilton, John M.....2:137R
 Hansen, Michael K.....3:157A
 Harper, Mary Frances.....8:502L
 Harshman, Ronald E.....7:421A
 Haskins, Edward F.....8:487F
 Helling, Sharon.....1:60R
 Hendrix, Jon R.....3:148A
 Henley, Dorothy.....7:444R
 Henzlik, Raymond E.....4:247R
 Hickman, Faith M.....6:358A
 Hinton, Joanne F.....5:316R
 Hounshell, Paul B.....5:270A
 Huffman, Dan.....7:443R
 Hughes, Stuart W.....1:25A
 Isaacson, Allen.....9:556R
 Jantzen, Paul G.....4:250R
 Jensen, Lauritz A.....7:438D
 Johns, Timothy.....5:308F
 Journet, Alan R.P.....9:543F
 Kahle, Jane Butler.....6:351A
 Kamrin, Michael.....5:295F
 Kauss, N.....8:502L
 Kay, John C.....4:250R
 Kelly, Kim.....2:128F
 Kennedy, Manert.....6:327E
 Kennemer, G.W.....5:312F
 Kerr, Norman S.....5:316R
 Kidd, David E.....8:466A
 Knight, John F.....2:90A
 Kolb, Christine L.....9:549F
 Kormondy, Edward J.....3:195F
 Krupka, L.R.....5:264A, 5:295F
 Lawson, Anton E.....7:394A
 Lener, Walter.....2:132R, 4:249R

The index has three parts: subjects, titles, and authors. Alphabetizing is letter-by-letter (not word-by-word); for example, "Educational" would precede "Education theory."

Leonard, William H.....	7:441F, 9:520A	Orlans, F. Barbara.....	7:440L	Simon, Madeline.....	5:315R
Lesh-Laurie, Georgia E.....	8:504R	Panyon, Peter.....	2:128F	Singleton, Rivers, Jr.....	5:280A
Levin, Sarah C.....	4:246R	Parker, Alfred J.....	8:487F	Smucker, Thomas.....	2:112F
Logsdon, Donald F., Jr.....	4:249R	Patrick, John J.....	6:346A	Snodgrass, George.....	7:441F
Longenecker, Nevin E.....	8:490F	Phillips, Gary S.....	2:121F	Stein, Howard.....	6:378R
Lucas, Katherine Ann.....	2:90A	Poppleton, Phillip A.....	9:556R	Stephenson, Steven L.....	2:119F
Lyons, Bernadette M.....	1:51F	Postula, Michael.....	8:507R	Stewart, James H.....	2:80A, 8:504R
Manor, C. Robert.....	1:33A	Punke, Verle.....	8:502L	Storey, Richard.....	5:314R, 7:440L
Mansfield, Donald.....	5:314R	Remy, Richard C.....	6:346A	Stronck, David R.....	1:44F
Markovits, Paul S.....	6:379R	Resnick, Jerry.....	6:378R, 9:518E	Sutton, William W.....	1:59R
Mason, Donald.....	4:249R	Richardson, William.....	5:314R	Telfair, Raymond Clark, II.....	1:57F
McClary, Andrew.....	5:295F	Rigsby, Tommy A., Sr.....	5:318R	TePaske, E. Russell....	2:98A, 3:200R
McCormack, Alan J.....	1:13E, 1:39F, 1:40F, 2:79E, 2:112F, 3:147E, 3:193F, 4:233F, 8:459E, 8:498F, 9:517E	Risch, Stephen J.....	3:157A	Tocci, Salvatore.....	5:286A
McEachron, Donald L.....	7:413A	Ritter, William R.M.....	4:248R	Tolman, Richard R.....	9:525A
McInerney, Joseph D.....	1:59R	Root-Bernstein, Robert.....	7:413A	Tsumura, Ted K.....	2:131R
Mertens, Thomas R.....	3:148A	Rosenthal, G.M.....	4:250R	Uno, Gordon E.....	2:132R
Meyer, James H.....	3:197R	Rusch, John J.....	7:421A	Van Raalte, Charlene.....	4:229A
Miller, Kenneth R.....	2:85A	Rush, Billie F.....	8:507R	Vener, A.M.....	5:264A
Moore, David.....	1:42F, 3:193F	Rushforth, Samuel R.....	8:472A	Vigue, Charles L.....2:134R, 5:315R, 8:506R
Mourton, Don.....	2:135R	Sacco, John P.....	8:484F	Wacker, David G.....	2:131R
Moyer, Wayne A.....1:37F, 4:246R, 5:306F	Schoomaker, Frances V.....3:202R, 6:378R	Wandersee, James H.....	4:212A
Myles-Tochko, Christina J....	6:379R	Schrock, Gould F.....	4:242F	Wells, Russell F.....	5:311F
Novak, Joseph D.....	7:393E	Shane, John.....	4:248R	Winet, Stephen D.....	2:132R
Oppenheimer, Dan.....	8:490F	Shannon, Dan C.....	4:248R	Winternitz, Barbara L.....	3:201R
		Shellberg, Thomas L.....	5:317R	Wulff, Barry L.....	7:443R
		Shmurak, Carole B.....	5:316R	Yager, Robert E.....	5:263E, 6:328A
		Shubeck, Paul P.....	1:62R	Zenhausern, Robert.....	5:291A
		Simbeck, Don K.....	2:138R	Zipko, Stephen J.....	7:406A