

IPM-Related Curricula and Resources for the Classroom

Advanced Arthropod Studies Curriculum

A supplement to arthropod study and activities students typically encounter in high school level biology, ecology and environmental sciences classes.

<http://www.uni.uiuc.edu/~dstone/advancedarthropodstudies.html>

BugPlay

For grades K through 3. Hands-on experiences with harmless insects help students develop an appreciation for these amazing creatures. Lessons, with accompanying music cassette, include the use of poems, songs, and drawings. Available from:

Addison Wesley Publishing Co.
(800) 552-2259

Bumble Boosters

A cooperative project of the University of Nebraska Department of Entomology, the Lincoln Public Schools Science Focus Program, and the Folsom Children's Zoo. Partner schools involved in Bumble Boosters receive teaching kits for use in conducting authentic research on Nebraska bumble bees. <http://bumbleboosters.unl.edu/>

Carolina Biological Supply, Inc.

One source of insects and other scientific supplies for schools.

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

CityBugs

A collaborative project between the University of California-Berkeley and the Oakland Unified School District. Contains lesson plans.

<http://www.cnr.berkeley.edu/citybugs/>

Elementary Urban IPM Curriculum

Provides the opportunity for K-6 educators in formal and informal settings to use IPM as the real-world theme in which to engage in scientific and interdisciplinary learning.

<http://www.pested.msu.edu/CommunitySchoolIpm/curriculum.htm>

Entomological Society of America — Kids' Page

Educational Information & Projects for Students in Elementary to Middle School

http://www.entsoc.org/education/elem_mid/elem_mid.htm

EPA Office of Pesticide Programs Student Website

Student website with links to interactive activities and information on pesticides, pesticide safety and the environment. <http://www.epa.gov/pesticides/kids.htm>

EPA Student/Teacher Websites

The main EPA site for teacher resources, student assistance and kids education. Provides links to lessons, activities and resources from all the divisions in EPA. <http://www.epa.gov/epahome/students.htm>

Florida 4-H Bug Club

An excellent website for kids from the University of Florida. The site provides lesson plans, games, and a lot of information for kids about insects in Spanish and English.

<http://bugclub.ifas.ufl.edu/>

HealthTeacher.com

Easy to follow online lesson plans on health and safety topics including head lice.

<http://www.healthteacher.com/lessonguides/default.asp>

Honey Bee Trading cards for Youth Education

A set of 18 honey bee trading cards are available from the Nebraska Beekeepers Association for youth education.

<http://entomology.unl.edu/beekpg/beecards/beecards.htm>

Insects in the Classroom: Bugs as Teaching Tools

This site has been provided for use in educating students about the wonders of the insect world. Lesson plans and other educational resources are available.

<http://entowww.tamu.edu/academic/ucourses/ento489/>

Join our Pest Patrol

Minnesota Department of Agriculture, 2000.

Excellent resource and activity sheets on IPM targeted to upper Elementary students (activity sheets and teacher information in pdf format.)

<http://www.mda.state.mn.us/ipm/IPMPubs.html>

or call: 651-297-3217

Katerpillars (& Mystery Bugs) Website

University of Kentucky Entomology Department

This site is fun and educational for younger kids. It includes activities and links to teaching resources, including lesson plans for field and classroom experiments.

<http://www.uky.edu/Agriculture/Entomology/ythfacts/entyouth.htm>

Learning About Pesticides at School: Project Ideas for High School or Middle School Classrooms or Student Environmental Clubs

September, 1995 22 pp. plus 8 page glossary

Teaching/learning activities designed for middle school and high school level students. Includes a variety of activities which can be combined into one comprehensive school pesticide use reduction project. This is an ideal project for interdisciplinary classes or environmental clubs. The project also involves activities appropriate in traditional health, chemistry, biology, ecology, math, speech, and social studies classrooms. Better yet, it involves students in a “real-world” project that will make a difference in their own lives. Available from:

Northwest Coalition for Alternatives to Pesticides (NCAP)
P.O. Box 1393
Eugene, OR 97440
(541) 344-5044

Legacy of a Pest

Science, technology, and social curriculum guide for understanding and dealing with pest problems. The over 50 teacher-tested activities deal with the gypsy moth problem, its life cycle, IPM control strategies, chemical control strategies, and more. 243 pp. Available from:

Legacy of a Pest
607 E. Peabody Dr.
Champaign, IL 61820
(217) 333-6880

Living With Insects in the Big City: Urban Insect Ecology and Safe Pest Management

A curriculum for grades K-3. Contains hands-on activities, teaches science framework concepts and applies biological concepts to our urban world. Includes graphic aids. Available from:

Citizens for a Better Environment (CBE)
500 Howard St., Ste. 506
San Francisco, CA 94105
(415) 243-8373

Mosquito Control Education

Education plays a primary role in the integrated pest management program for 4th graders used by Leon County Mosquito Control. http://www.co.leon.fl.us/mosquito/mceduc/school_program_main_page.htm

Orkin Insect Zoo

Take a Virtual Tour the National Museum of Natural History's Insect Zoo.
<http://www.mnh.si.edu/museum/VirtualTour/Tour/Second/InsectZoo/>

Pennsylvania State University School IPM Education Resources

The premier clearinghouse for IPM curricular resources, this website includes a comprehensive searchable database on teaching resources related to IPM as well as lessons and links. <http://paipm.cas.psu.edu/schools/schoolEduc.htm>

Pesticide Safety Bingo

The United States Environmental Protection Agency, Region 6.
Lesson plans, bingo cards, and information on pesticide safety and IPM in urban areas for grades K-6.
<http://www.epa.gov/region6/6pd/bingo/index.htm>

Pests Have Enemies Too: Teaching Young Scientists About Biological Control

Jeffords, M.R. & Hodgins, A.S. 1995. Illinois Natural History Survey, Champaign, IL, special publication 18. Excellent resource guide and lesson plans for middle school students on biological control. (for fee only) To order: call (217) 333-6880. <http://www.inhs.uiuc.edu/chf/outreach/MidSchool.html>

Purple Loosestrife Project K-12 Educational Materials

Purple Loosestrife Project, Michigan State University -Comprehensive and creative lesson plans and resources for K-12. Project focusses on Purple Loosestrife as an invasive species and biological control methods to control it. Classroom tested and aligned with Michigan Curriculum Benchmarks. <http://www.miseagrant.org/pp/activities.html>

School IPM—Education

In Pennsylvania, Integrated Pest Management (IPM) is one of nine components of the newly adopted [Academic Standards in Environment and Ecology](#). The goal is to move IPM principles and activities into the K-12 curriculum as an example of interdisciplinary, environment-oriented problem solving.

<http://paipm.cas.psu.edu/schools/schoolEduc.htm>

Teaching Ideas: Pesticide Awareness and the Concept of Integrated Pest Management

Curriculum is suitable for use in middle, junior, or senior high school biology, ecology, or social studies courses. Included is “How to Map Pesticide Use in your School (and Community),” and four lesson plans on pesticides and Integrated Pest Management concepts. Available from:

Northwest Coalition for Alternatives to Pesticides (NCAP)
P.O. Box 1393
Eugene, OR 97440
(541) 344-5044

The Adventures of Banph — Ant Knight

The adventures of Banph take place in a future world where insects rule earth. Humans, and mammals in general, no longer exist on the planet. Many insect species have evolved and adopted human characteristics.

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

The Growing Classroom

For grades 2 through 6. Students use indoor and outdoor gardens for the study of science and nutrition through experimentation, investigation, and data collection and analysis. Available from:

Addison Wesley Publishing Co.
(800) 552-2259

The Insectianza of Excitement

4-H Cooperative Curriculum System, 1997.

A 4-booklet set of entomology activities. Purchase the entire set or individual books based on grade level. (for fee only) Available from the University of Minnesota Extension Service

To order, call: (800) 876-8636 or order online:

<http://www.extension.umn.edu/units/dc/item.html?item=06883>

The Insect Question?

A place where teachers and students who want to learn more about insects can ask questions and have them answered by entomologists, extension agents, and others.

<http://www.ent.iastate.edu/maillinglist/bugnet/question.html>

The K-8 Aeronautics Internet Textbook

Cislunar Aerospace, Inc., 1997.

K-8 activities and lessons on aeronautics. The insect section of the lesson plans contains many creative lessons for Elementary and Middle school students on insect flight. Developed by Cislunar Aerospace, Inc. in cooperation with University of California, Davis with funding from NASA. <http://wings.avkids.com/Curriculums/Insects/index.html>

The Quest for Less-Activities and Resources for Teaching K-6

United States Environmental Protection Agency, Office of Solid Waste, 2000.

An excellent complete resource guide on natural resources, waste management, recycling, composting, source reduction and landfills. The Quest for Less provides hands-on lessons and activities, enrichment ideas, journal writing assignments and other educational tools and skills relating to reusing, reducing and recycling waste. (free government publication) In pdf: <http://www.epa.gov/epaoswer/osw/kids/quest/index.htm>

To order: Call: 1-800-490-9198, or online at:

<http://www.epa.gov/ncepihom/ordering.htm>

The Salt Creek Tiger Beetle

Learn more about one of the rarest insects in North America. It is only found in a few remnant saline marshes in Lancaster county Nebraska.

<http://entomology.unl.edu/lgh/sctb/>

The Young Entomologists' Society (Y.E.S.)

An international society of young and amateur insect enthusiasts. Operates on a membership basis, publishes several newsletters, sells books, educational toys, and clothing. Encourages active involvement of its young members and communication with each other, primarily through the mail. A catalog of their publications is available.

Y.E.S. Inc.

1915 Peggy Place

Lansing, MI 48910-2553

(517) 887-0499

Understanding Invasive Aquatic Weeds

Homework and classroom activities for 5th graders. <http://www.apms.org/book/activity.htm>

University of Florida's Best of the Bugs Website

This site provides links to websites judged by entomologists at the University of Florida to be the best that the web has to offer on insects. Excellent site for teachers and kids. <http://pests.ifas.ufl.edu/bestbugs/>

Using Live Insects in Elementary Classrooms

Center for Insect Education Outreach, University of Arizona, 1997. -K-6 curriculum which includes 20 lesson plans that utilize insects to teach all kinds of concepts to young learners. Includes activity sheets, fact sheets, and rearing sheets on the insects used. (free on website)

<http://insected.arizona.edu/uli.htm>

Virtual Insect Collection

http://entomology.unl.edu/insectid/virtual_insect/home.html

Wild World of Pest Management

University of Nebraska

Youth program targeting 5th graders teaches IPM.

<http://pested.unl.edu/wildwor.htm>

Yucky Roach World

Discovery Communications

A great kid-friendly site about roaches. Includes IPM techniques to keep them away.

<http://yucky.kids.discovery.com/noflash/roaches/index.html>

