



SCIENCE BYTES

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Fresh Catch: New Fisheries Content Enhances Online Curriculum

See: <http://www.projectflow.us>

New curriculum content highlighting Great Lakes fisheries is now available online via Michigan Sea Grant's web site, Fisheries Learning on the Web (FLOW).

Four new and revised classroom lessons and hands-on activities help educators and students observe and identify Great Lakes fish, understand the fundamentals of fish habitat and life cycles, and learn how scientists monitor the movement of fish populations.

The new FLOW lessons were developed in collaboration with fisheries experts at the University of Michigan and reviewed by seven Michigan science teachers. All lessons meet state and national science education standards and benchmarks and are designed for educators and students in grades 4 through 8.

See complete news announcement about FLOW:
<http://www.miseagrant.umich.edu/news>

Summer Internship Program For High School Students At NIH

What are you doing next summer? Why not work in a research lab at the National Institutes of Health (NIH) for eight weeks? NIH is now accepting applications from students who are at least 16 years old and enrolled at least half-time in high school, have finished high school or are attending an accredited U.S. college or university. You would receive a monthly stipend, but housing costs are not paid. For more details about the NIH Summer Internship Program and an application, see:

<http://www.training.nih.gov/student/sip/index.asp>

Flinn Scientific - Free Physical Science Activities

Flinn Scientific offers free physical science demonstrations, called Physical Science Fax! These demonstrations/experiments are guaranteed to excite your students and teach valuable and sometimes difficult-to-learn concepts that are relevant to National Science Education Standards.

Two Physical Science Fax! are now available via the Internet.

Self-Starting Siphon Tube – Even a standard siphon is intriguing, however, this free physical science lab idea, the “Self-Starting Siphon Tube,” is definitely an attention-grabbing device—no suction is required to start the liquid flowing! We provide you with preparation instructions, demonstration tips, and discussion notes explaining how the Self-Starting Siphon Tube works. Challenge your students' critical thinking with this demo that takes the concepts of siphons and fluid pressure to the next level.

Simple Iron Nail Motor – It doesn't get much easier than this! We have seen plenty of other easy-to-build motors, but this “Simple Iron Nail Motor” definitely is the simplest! It requires only four components: a battery, a magnet, a piece of wire, and an ordinary iron nail. Assembling a more complicated motor has its benefits, but when it comes to teaching the basic science concepts, this simple motor is at the head of the class.

Physical Science Fax! are free to science teachers. To access your copies please go to:

<http://www.flinnsci.com/psfaxpr2008.asp>

Flinn Scientific, Inc.

P.O. Box 219

Batavia, IL 60510

1-800-452-1261

E-mail: flinn@flinnsci.com

Web site: www.flinnsci.com <<http://www.flinnsci.com/>>

<http://www.nasm.si.edu/exhibitions/gal102/americanbyair/activities/aroundworld/index.cfm>

Enjoy the aviation world through the activities of this Smithsonian website!

Flinn Scientific - Green Thumb & Mnemonics

Here are two free lab ideas from Flinn Scientific to add to your collection of outstanding activities for your students. For a low-cost introduction to plant germination, this month's life science activity entitled "Green Thumb" provides an innovative way to clearly observe the first visible characteristics of plants. Instead of using jars, pots, or Petri dishes, your students can sprout various seeds inside the fingers of economical transparent plastic gloves—to easily see and compare the structures of monocots and dicots.

There's a very good chance your students will use this month's other activity when studying for their next science test! Present some memory-boosting ideas—like the well known acronym ROY G BIV—to help your students remember science concepts. The activity entitled "Mnemonics—Memory Assisted Retention Strategy" will surely encourage students to come up with their own creative new ways to recall key information.

Would you like more free science activities? Simply place an order with Flinn Scientific to continue receiving these great lab ideas by e-mail. Our customers get these free activities every month and you can too—just order from Flinn now!

To print "Green Thumb" and "Mnemonics—Memory Assisted Retention Strategy" please go to: http://www.flinnsci.com/Sections/MS/Activities/MS_act.asp

Please add flinn@flinnsci.com to your e-mail Address Book or Safe List to ensure that e-mails from Flinn Scientific are not blocked by any e-mail filters that your school/district technology department may be using.

Mapping Alaska Communities Workshop: Intro to GIS and Community Analysis

January 10th and 11th, 2008 8:30 am - 4:30 pm (Two separate one day workshops offered.)

University of Alaska Anchorage - 3801 Old Seward Hwy. Room 149 Anchorage, AK 99501

[More Info/Registration \(www.nur-online.com\)](http://www.nur-online.com)

Audience: Beginners, anyone interested in mapping their community

Participants will learn to use ArcGIS 9.2 to do the following:

Creating thematic maps

Participants will learn to create thematic maps of their own data, and display spatial trends in information.

Address mapping (geocoding)

Participants will learn to map addresses of their clients, their projects or incidents such as crime or disease.

Download and map Census & American Community Survey data

Participants will learn to extract and map current Census data such as poverty, race, language, population, transportation, education and workforce characteristics.

Participants will also learn to:

Conduct spatial queries

Download free shapefiles

Create well designed maps

Mapping techniques transferable to all other communities. Exercises are designed for beginners. Intermediate Excel skills required.

Materials

+ Comprehensive workbook (75 pages), which includes the presentation, exercises and reference worksheets,
+ ArcGIS (ArcView 9.2) software 60-day trial CD set,
+ Thirty day free access to new 2005 Tiger/Line geography files (converted to shapefiles) which include streets, zip codes, school districts, voting districts, census tracts and many other useful geographies

+ Thirty day free access to our Analyzing Your Community: Local Demographic Analysis Online Workshop

What People Are Saying

State of Alaska - Department of Transportation - "This was truly an outstanding class!"

Municipality of Anchorage: "This was a very good "jump start" to my GIS education."

University of Alaska - Anchorage: "This was an excellent workshop."

Alaska Department of Education: "This was great! I am looking forward to incorporating our existing data into a mapping system."

Flinn Scientific Pays Your Hazardous Materials Shipping Fees!

To help science teachers afford the chemicals and supplies they need, Flinn Scientific will pay your hazardous materials shipping fees.

The rising costs of hazardous materials shipping fees have been a growing concern of many science teachers. These fees are charged by shipping companies (Fed-

eral Express, UPS, etc.) for chemicals classified as hazardous to transport. Order your chemicals from Flinn Scientific and your hazardous materials fees will be paid – saving you money so you can afford the science supplies you really need. Some restrictions may apply.

For more information, please contact:

Flinn Scientific, Inc.
P.O. Box 219
Batavia, IL 60510
1-800-452-1261
E-mail: flinn@flinnsci.com
Web site: www.flinnsci.com

Sent by: Society of American Indian Government Employees <SAIGE-L@LISTSERV.INDIANA.EDU>

This is an outstanding opportunity and this message should be spread everywhere. I'm sure there are students who are more than worthy of this level of education, but due to their family's income, cannot reap the benefits of such an offer. If you know of someone who could benefit from this outstanding offer, please pass this on to them.

SAIGE] Harvard University

Harvard University announced over the weekend that from now on undergraduate students from low-income families will pay no tuition. In making the announcement, Harvard's president Lawrence H. Summers said, 'When only 10 percent of the students in Elite higher education come from families in lower half of the income distribution, we are not doing enough. We are not doing enough in bringing elite higher education to the lower half of the income distribution.'

If you know of a family earning less than \$60,000 a year with an honor student graduating from high school soon, Harvard University wants to pay the tuition. The prestigious university recently announced that from now on undergraduate students from low-income families can go to Harvard for free...no tuition and no student loans!

To find out more about Harvard offering free tuition for families making less than \$60,000 a year visit Harvard's financial aid website at:

<http://www.fao.fas.harvard.edu/>
<<http://www.fao.fas.harvard.edu/>> or call the school's financial aid office at (617) 495-1581.

SEND TO SOMEONE WHETHER THEY CAN USE OR NOT. THEY JUST MIGHT KNOW SOMEONE WHO CAN!

WHAT: ASD Science Kit Training!

WHO: Elementary Teachers - You are invited to attend!

WHEN: Saturday, January 12, 2008
9:30am – 4:00pm

WHERE: Begich Middle School

BENEFITS:

No sub plans!
No long nights or weekend afternoons figuring the kits out on your own!
\$90 addendum!

The next round of kits will arrive at your school this week, that way they are in your hands and ready to go after the winter break.

Please sign up now and help us with our planning.

MORE INFORMATION:

If you are new to your grade level, new to using science kits, or simply want to be reminded of the unit activities and the science content, please join us Saturday, January 12, 2008 for Science Kit Training!

All Science Kit Training sessions are now available on mylearningplan.com!!!!

There are separate MLP events for each kit title!

The format is - SCI: Science Kit Training - "Kit Title" ...

Sign up ASAP on mylearningplan.com.

Please make sure you sign up for the kit training you are interested in, as trainings with low enrollment will be cancelled.

The deadline to sign up is midnight on Wednesday, January 9, 2008

Anyone who teaches science is encouraged to come to the training on Saturday, January 12, 2008 @ Begich Middle School - 9:30am - 4pm (Including a one-hour lunch break from 12-1).

Contact Judy Onslow if you are having trouble signing up for your session.

Enjoy the Break!