



CRS

COMMUNITY RESOURCES FOR SCIENCE
practical support for great science teaching

1611 San Pablo Avenue, Suite 10B
Berkeley, California 94702

(510) 527-5212 • www.crscience.org

SCIENCE RESOURCE GUIDE - SPRING 2011

CRS prepares and sends this Science Resource Guide three times a year to keep you up to date about science education happenings (professional development, grant opportunities, program deadlines and special exhibits) around the Bay. We send you updates every month via our Science e-NewsBlasts. **Make sure CRS has a reliable email address for you** so that you will receive Science e-NewsBlasts and invitations to have Scientist Volunteer science lessons in your classroom.



THE STORM LET UP JUST IN TIME

Over two dozen teachers and science educators turned out for our most recent **Science Resource Social** held on the research ship of the **Marine Science Institute** in Redwood City. While sipping wine and nibbling on a light dinner of Cheese Board pizza and other treats, teachers learned about the classes, field trips, professional development support, and other offerings of MSI. Viewing plankton from water scooped out of the bay from the side of the boat on a video-projected microscope was a highlight of the presentation! Educators from other science centers, including Hiller Aviation Museum, were on hand to share information about their programs and services as well.

WE'RE AVAILABLE OVER THE SUMMER

Are you changing grades next year?
Changing schools? Want to flesh out that
new science unit?

Make a Request for Science Support!

call 510-527-5212 or email CRS@crscience.org

BERKELEY, EMERYVILLE, AND OAKLAND SCHOOL DISTRICT TEACHERS:

We are able to extend CRS membership benefits to you and your colleagues thanks to generous grant funding. Please be sure to contact us at CRS@crscience.org with your email address, grade level and school site, so that you are "in our system" to receive the monthly Science e-NewsBlasts, invitations for in-class scientist presentations, invitations to Science Resource Social events at local museums and science centers, and more.

FOLLOW US...



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SAVE THE DATE

Our next Science Resource Social will be at
The Hayward Shoreline Interpretive Center

Thursday, September 22, 2011

from 4:30-6:30pm

GO ONLINE FOR A MORE DETAILED VERSION OF THE SCIENCE RESOURCE GUIDE

www.crscience.org/ResourceGuideMay11.pdf

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Program Deadlines

May 2011

- 5/13/2011 **Science Lab PD - West Contra Costa - Application Deadline**
KQED
<http://www.kqed.org/education/earlylearning/sciencelab.jsp>
- 5/15/2011 **Fall 2011 Program Application Deadline**
Slide Ranch
<http://www.slideranch.org>
- 5/23/2011 **Deadline for June 6- July 7 Online Professional Development**
American Museum of Natural History
<http://learn.amnh.org/>
- 5/23/2011 **Project Astro Application Deadline**
Astronomical Society of the Pacific
<http://www.astrosociety.org/education/astro/bayarea/bay.html>
- 5/27/2011 **Mammoth Discovery! Summer Institute for Teachers - Reg. Deadline**
Children's Discovery Museum of San Jose
<http://www.cdm.org/teachers#institute>
- 5/27/2011 **QUEST Science Education Institute - Application Deadline**
KQED
http://www.kqed.org/quest/education/professional_development

June 2011

- 6/20/2011 **Deadline for July 4 - Aug 14, 2011 Online Professional Development**
American Museum of Natural History
<http://learn.amnh.org/>

August 2011

- 8/1/2011 **Fall fieldtrip reservations begin**
Hayward Shoreline Interpretive Center
http://www.haywardrec.org/hayshore_schools.html
- 8/1/2011 **Field Trip Brochures sent out**
Crissy Field Center
<http://www.parksconservancy.org/our-work/crissy/programs/>
- 8/1/2011 **Field Trip Reservations begin - Date Approx.**
Point Reyes National Seashore
<http://www.nps.gov/pore/forteachers/index.htm>

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org

- 8/1/2011 **Lottery Deadline for Fall Fieldtrips**
East Bay Regional Parks District
<http://www.ebparks.org>
- 8/1/2011 **Field Trip Reservations BEGIN - Date Approx. Fills Fast**
Aquarium of the Bay
<http://www.aquariumofthebay.com>
- 8/17/2011 **Registration for Fieldtrips and training BEGINS - Date Approx.**
Golden Gate National Recreation Area
<http://www.nps.gov/goga/forteachers/index.htm>
- 8/29/2011 **Lottery deadline for free guided fall fieldtrips - Date Approx.**
SF Botanical Garden & Strybing Arboretum
<http://www.strybing.org>
- 8/31/2011 **Fall Field Trip Sign-ups Begin**
Don Edwards San Francisco Bay National Wildlife Refuge
<http://desfbay.fws.gov/environ.htm>

September 2011

- 9/1/2011 **Registration opens for Fall Programs**
Hidden Villa
<http://www.hiddenvilla.org/HVEEP.php>
- 9/1/2011 **Begin Scheduling Fieldtrips for Grade 6-12 Lab Visits - Date Approx.**
LBNL Center for Science and Engineering Education
<http://www.lbl.gov/Education/CSEE/>
- 9/1/2011 **Field trip reservations BEGIN for Fall 2011 - Date Approx.**
Marine Mammal Center Marin Headlands
<http://www.tmmc.org/>
- 9/1/2011 **Begin Scheduling 5th Grade BLAZES field trips - Date Approx.**
LBNL Center for Science and Engineering Education
<http://www.lbl.gov/Education/CSEE/>
- 9/7/2011 **Discovery Lab Fieldtrip Lottery Deadline - Date Approx.**
Seymour Marine Discovery Center
<http://www2.ucsc.edu/seymourcenter/lp-school.html>
- 9/15/2011 **Camp Arroyo 2010-11 school year application Deadline **Date Approx.**
StopWaste.org
<http://www.stopwaste.org>

October 2011

- 10/1/2011 **Lottery Deadline for 2011-12 School Programs- Date Approx.**
Marina Education Programs
<http://www.ci.berkeley.ca.us/ContentDisplay.aspx?id=11922>
- 10/1/2011 **Applications for Teacher at Sea program BEGINS**
National Oceanic and Atmosphere Administration
<http://teacheratsea.noaa.gov/about/index.html>
- 10/3/2011 **Registration opens for Spring Programs**
Hidden Villa
<http://www.hiddenvilla.org/HVEEP.php>

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- 10/15/2011 **Spring 2012 Program Sign-up Deadline**
Slide Ranch
<http://www.slideranch.org>
- 10/15/2011 **Registration for Feildtrips and training ENDS**
Golden Gate National Recreation Area
<http://www.nps.gov/goga/forteachers/index.htm>

December 2011

- 12/1/2011 **Spring Fieldtrip Sign up Begins**
Don Edwards San Francisco Bay National Wildlife Refuge
<http://desfbay.fws.gov/environ.htm>
- 12/1/2011 **Spring Fieldtrip Lottery ENDS**
SF Botanical Garden & Strybing Arboretum
<http://www.strybing.org>
- 12/5/2011 **Lottery Deadline for Winter & Spring Fieldtrips**
East Bay Regional Parks District
<http://www.ebparks.org>



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Professional Development

May 2011

- 5/12/2011** **Google Sites** **Resource Area for Teachers (RAFT)**
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.raft.net/workshops/in-house>
Google Sites is Google's free web page creator. Create a website to communicate important information to families or create a website where students can share their work with either a select group or with the world. Customize your page, and then, easily add information from other Google tools to your site. In this workshop, you'll become familiar with the different features of Google Sites, and have a chance to begin building a site of your own. INSTRUCTOR: Mary Fran Lynch is a third grade teacher at Alta Vista School in the Union School District where she enjoys integrating technology into as many lessons as she can. In addition to the workshops she has offered at RAFT, she has presented Google Docs at SVCUE, the Good Teaching Conference, and for staff development training. COST: A \$20 deposit, returned at the end of the class or if you cancel at least 1 week in advance, is required to register.
- 5/14/2011** **Life Science with a Non-Scientist** **Resource Area for Teachers (RAFT)**
For Grades: 5th;6th;7th;8th;9th;10th;11th;12th
<http://www.raft.net/workshops/in-house>
This class teaches practical ways to explore life science concepts without a complicated lab set-up. Activities include modeling cell regulation and regeneration (cell biology), food webbing with large groups (ecology), and a hematocrit investigation (physiology). INSTRUCTOR: Eric Welker is part of the RAFT Education staff, and is in charge of product displays and demos.
- 5/14/2011** **FEAST - Fun Exchanges & Activities for Science Teachers - SI** **Chabot Space and Science Center**
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.chabotspace.org/feast.htm>
At this session, we'll be exploring anything related to surviving that trip into space and surviving for months in the space environment. From the moment you begin preparing for this microgravity experience, you'll need to gather all of your knowledge about chemistry, physics, environmental science, biology and especially physiology. Take a good look at your science curriculum and you'll probably find a lot of connections to this topic. As always, we encourage everyone to seize the opportunity to share an activity or two with a very receptive group of FEAST teachers. Bring a demo, lesson and/or other idea around this topic and you'll add to the excitement of teachers teaching teachers. Chabot staff will also share some of the many activities we have used over the years. Special arrangements will be made to see one of the planetarium shows after the meeting.
- 5/21/2011** **Teach with the "Sounds of Music"** **Resource Area for Teachers (RAFT)**
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
<http://www.raft.net/workshops/in-house>

@ Redwood Ciy. This workshop will focus on creating a "music chest" filled with homemade instruments constructed from recycled materials and "found" sounds. The instruments will be used in creating activities and lessons that enhance the teaching of language arts, science, social studies, mathematics, and other arts areas in an integrated format. Make learning fun through effective learning strategies that reinforce basic learning requirements. INSTRUCTOR: Sandra Tsurutome recently retired as Professor of Music Education and Director of the Research and Development School at Florida Atlantic University. For 35 years she taught all levels of music, specializing in instrumental, multi-cultural music, and the integration of arts into all areas of the curriculum.

June 2011

- 6/4/2011 - 6/5/2011** **Camping at the Presidio Training** **Golden Gate N.P. Conservancy**
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.parksconservancy.org/our-work/crissy/programs/camping-at-the-presidio.html>
The CAP Leadership Training is designed to provide group leaders with the skills and resources to plan and lead a youth camping trip in the Presidio and beyond. During the two-day, one-night training session, group leaders acquire technical camping skills and become familiar with the Presidio's natural and cultural resources. They are trained to lead place-based nature hikes and other outdoor activities as well as learn about the process for reserving a camping trip through the CAP program. After participants complete the CAP Leadership Training program, they can begin to prepare for their camping trip to the Presidio's Rob Hill Campground.
- 6/6/2011** **Online Professional Development - June 6- July 7** **American Museum of Natural History**
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://learn.amnh.org/>
Summer 2011 - Session 1 - June 6 2011 - July 17 2011 - Offerings are: The Diversity of Fishes, Earth: Inside and Out, Genetics, Genomics, Genethics, The Ocean System, Space, Time and Motion, Evolution, The Solar System, In the Field with Spiders
- 6/6/2011 - 6/10/2011** **Science in the Park** **California Academy of Sciences**
For Grades: K;1st;2nd;3rd;4th;5th
<http://www.calacademy.org>
Ever wonder how to integrate San Francisco's informal science centers into your education curriculum? This class is a week-long exploration of plant and animal life at three local science centers: the California Academy of Sciences, the San Francisco Botanical Garden at Strybing Arboretum, and the Conservatory of Flowers. Use hands-on explorations, sketching, and active observation to discover more about flora and fauna and informal science resources within Golden Gate Park
- 6/13/2011 - 6/15/2011** **Communicating Ocean Sciences** **Lawrence Hall of Science**
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.lhs.berkeley.edu>
This workshop at the University of California Berkeley's Lawrence Hall of Science is designed for scientist/science educator teams that plan to co-teach the undergraduate and graduate course, Communicating Ocean Sciences or Communicating Ocean Sciences to Informal Audiences. During this 2.5-day workshop we will provide you with:
Complete syllabus and instructor's guide;
A full set of curricula for students to take into local classrooms or COSIA activity write-ups that students can use in informal learning environments;
Correlations of course curriculum to pedagogy and National Science Education Standards;
Sample documentation to get the course listed at your site;
Ongoing technical assistance to ensure successful implementation of the course.
- 6/15/2011** **Force and Motion - 5 week Online Short Course** **National Science Teachers Association**
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
www.nsta.org/2011usel

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Intimidated by inertia? Frightened by forces? Mystified by Newton's Laws of Motion? You are not alone. The NSTA Online Short Course: Force and Motion is the perfect course for science teachers interested in learning more about the topic or for those who would like a refresher course. Two graded, graduate Credits will be available for an additional fee. Price includes access to the five live meetings and archives, the instructor's PowerPoint presentations, a discussion forum, and the required course materials: SciPack, SciGuide, 2 Journal Articles, and Force and Motion book. At the end of the course, all participants will have the opportunity to pass a final assessment and print a certificate from NSTA demonstrating their understanding and proficiency of the content. Educators are encouraged to seek approval in advance from their district for continuing education credits that may be ascribed for participating in this online short course.

6/15/2011 Light - 5 week Online Short Course National Science Teachers Association

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th

www.nsta.org/2011usel

Why is left right and right left in the mirror? Baffled by the basics of reflection and refraction? Wondering just how the eye works? If you have trouble teaching concepts about light that you don't fully grasp yourself, the new NSTA Online Short Course: Light will help. The course addresses the topics that science teachers and parents need to know to teach about light with confidence. This is the perfect course for science teachers interested in learning more about the topic or for those who would like a refresher course. This price includes access to the five live meetings and archives, the instructor's PowerPoint presentations, a discussion forum, and the required course materials: SciPack, SciGuide, 1 Journal Article, 1 Book Chapter and Light: Stop Faking It! book. At the end of the course, all participants will have the opportunity to pass a final assessment and print a certificate from NSTA demonstrating their understanding and proficiency of the content. Educators are encouraged to seek approval in advance from their district for continuing education credits that may be ascribed for participating in this online short course.

•This course provides a traditional letter grade for those desiring to take the course for credit through the University of Idaho. All participants will receive a certificate of completion in the 'My PD Record' area of their NSTA Learning Center.

6/18/2011 Tools & Techniques for Teaching Science Resource Area for Teachers (RAFT)

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

<http://www.raft.net/workshops/in-house>

The first in a series of three classes, this session will address three guiding principles that will make your science course a very dynamic program: (1) to teach like Mr. Bean (comedian), (2) the Pareto principle (20/80 rule of business), and (3) the Japanese philosophy of Kaizen (small incremental changes). Topics covered will include organizing lab groups, proper documentation of laboratory notebooks, presenting a lecture/lab, grading student work, and student evaluations. Participants will receive a workbook and CD of the session.

INSTRUCTOR: Mark Okuda is currently an adjunct faculty member at Evergreen Valley College. Previously, Mark was a science instructor at Silver Creek High School for 33 years, where he initiated a forensic science magnet. This included course offerings in Biotechnology and Forensic Science.

6/12/2011 - Forestry Institute for Teachers - Plumas County Forestry Institute for Teachers

6/18/2011 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

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

It's not too early to plan for the summer! These week-long workshops provide participants with Forestry curriculum resources guides, Project Learning Tree and Project Aquatic WILD training, and a \$100 stipend, plus housing, meals and curriculum materials.

6/22/2011 A Colorful Light Experience! Resource Area for Teachers (RAFT)

For Grades: 5th;6th;7th;8th

<http://www.raft.net>

Visible light is made up of the colors of the rainbow and more. Explore some fun activities which allow students to find out about the colors in "white light" and the effects of filter. We'll also see how scientists use light analysis to learn about light-emitting objects. These activities will utilize common, inexpensive items to help investigate light. Complimentary filters, rainbow glasses (diffraction grating) and classroom spectroscope kits will be included. INSTRUCTOR: Tom Gates is a former Aerospace Education Specialist, now with RAFT's Education Department. He traveled extensively in the Western U.S. giving teacher workshops, classroom visits, and assembly programs with NASA for over 30 years. Tom teaches many of RAFT's Outreach workshops.

- 6/22/2011 Tools & Techniques for Teaching Science Standards Resource Area for Teachers (RAFT)**
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.raft.net/workshops/in-house>
 The second in this series, discussions will include how API scores are calculated and ways to prepare your students for exit exams. This session will focus on three things, namely (1)how the API scores are calculated, (2)test taking strategies, and (3) how to prepare your students for science subject matter exit tests. The underlying principles that will carry over from session I are the Pareto Principle (20/80 rule of business) and Kaizen (small incremental changes). Participants will receive a workbook and CD of the session.
 INSTRUCTOR: Mark Okuda is currently an adjunct faculty member at Evergreen Valley College. Previously, Mark was a science instructor at Silver Creek High School for 33 years, where he initiated a forensic science magnet. This included course offerings in Biotechnology and Forensic Science.
- 6/21/2011 - Mammoth Discovery! Summer Institute for Teachers Children's Discovery Museum of San Jose**
6/22/2011
 For Grades: K;1st;2nd;3rd;4th
<http://www.cdm.org/teachers#institute>
 Are you a teacher, or do you know a teacher who would like to receive a free Children's Discovery Museum class field trip? CDM is looking for Kindergarten to 4th grade teachers who are interested in learning more about mammoths and who would like to help CDM to develop Focus Field Trips for its new Mammoth Discovery! exhibit. Each participating teacher will receive a free field trip for their students during the 2011-2012 school year and a paleontology classroom kit including fossils, teacher-tested activity ideas, resources, and links to the CA Content Standards. The workshop will be available to the first 25 teachers (Grades K-4) who apply. Registration deadline is Friday, May 27th. Call (408) 298-5437 ext. 261 or e-mail lupe@cdm.org for details; spaces are limited and filling up fast!
- 6/23/2011 RAFT San Jose Science Institute Resource Area for Teachers (RAFT)**
 For Grades: 4th;5th;6th;7th;8th
<http://www.raft.net>
 During this fast-moving Science Institute, RAFT instructors will present ten specific hands-on activities that cover core curriculum topics in Physical Science, Life Science, and Earth Science. Participants will be able to try the activities that most interest them, and take home a set of classroom materials ready for immediate use. A thought-provoking guest speaker will also be featured. Fellows Program Description: Shortly after the Institute, RAFT will select up to five "Science Fellows" to showcase their new skills and enthusiasm for science. Working in collaboration with the RAFT Education Team, the Fellows will offer a series of informal demos and hands-on lessons both at RAFT and in their schools. The Fellows will earn modest stipends for these activities. Repeated at RAFT Redwood City on July 12th. INSTRUCTOR: Michael Pollock taught hands-on science to both mainstream and special needs elementary students for 25 years. He currently works at RAFT helping to produce educational kits.Eric Welker is part of the RAFT Education staff, and is in charge of product displays and demos.Greg Brown is the current Director of Education at Resource Area For Teaching (RAFT), in San Jose, CA.
- 6/21/2011 - Smart by Nature: Making Learning Connections Center for Ecoliteracy**
6/23/2011
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.ecoliteracy.org/events/smart-nature-making-learning-connections-between-classroom>
 Smart by Nature: Making Learning Connections between the Classroom, Lunchroom, and Garden -- Food connects many of our most important concerns: Good nutrition is vital to academic achievement. The ways in which we grow, process, market, prepare, and dispose of food are central to questions of sustainability. Improving school food and nutrition education are key to addressing major public health issues. Children learn best through combinations of hands-on and brains-on experiences in diverse settings. This three-day professional development opportunity, directed by leaders in the field, will offer interdisciplinary learning about food, culture, health, and the environment. It is designed to support teams from schools and districts wanting to integrate academic curricula with school gardens, lunchrooms, classroom culinary experiences, and environmentally sustainable practices. Participants will explore the interconnectedness of the ecological principles underlying sustainable food systems, personal and community health, and how food provides a window into understanding cultures. A limited number of full and partial scholarships will be available for teams demonstrating need. If you would like to apply for a scholarship, please be sure to indicate your interest in the "Comments" box on your application.

- 6/20/2011 - Taking Science Outside-K-5 Outdoor Education Institute Bay Area Science Project**
6/24/2011
 For Grades: K;1st;2nd;3rd;4th;5th
<http://dl.dropbox.com/u/5129871/Application2010.BASP.SI.pdf>
 Institute activities will deepen adult level science content knowledge based on the California science standards; provide outdoor experiences and trainings in partnership with EE organizations; model effective inquiry-based science pedagogy; explore the new FOSS "Taking Science Outdoors" curricular lessons for grades K-5; model the use of science notebooks in all activities. Participants will receive a \$500 stipend upon completing the 5-day institute, free curricular materials and lunch each day, a \$200 stipend for attending four outdoor follow-ups during the academic year, depending on funding, and will be eligible for upper division/post BA units (at participants' own expense). Cost is \$1,200 per teacher, to be paid by school or district. To apply, fax completed application to 510-642-1055,
- 6/19/2011 - Intracoastal Waterway Wetlands Expedition - apply by 4/18/11 Gulf of Mexico Foundation**
6/24/2011
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.gulfmex.org/iwwe.htm>
 The Gulf of Mexico Foundation's Intracoastal Waterway Wetlands Expedition (IWWE) is a teacher training workshop for K-12 and college entry educators that takes place aboard a 100-foot vessel, the M/V Fling. The workshop, sponsored annually by ConocoPhillips, educates participants of the importance of coastal habitats and issues facing the Gulf Coast and its communities. Both the spring break and summer cruises begin in Freeport, Texas and travel along the Intracoastal Waterway to Louisiana. The only cost to participants is a \$100 REFUNDABLE deposit and transportation to and from Freeport, Texas, plus room and board for those days. This workshop is approved as a Continuing Professional Education (CPE) provider for the state of Texas and will award CPE hours upon completion of the workshop.
- 6/25/2011 Tools & Techniques for Teaching Thinking in Science Resource Area for Teachers (RAFT)**
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.raft.net/workshops/in-house>
 The third in this series, this class will address what makes a good "thinking" activity and how to engage your students in a sequential, multi-level process of "thinking." Level one is making connections:the presenter will model several different ways to engage students in looking at science facts/concepts/ideas, and making connections amongst these entities. Level two will have participants design "a better mouse trap." Level three will have participants make connections with objects/ideas that otherwise seem unrelated. Participants will receive a workbook and CD of the session. INSTRUCTOR: Mark Okuda is currently an adjunct faculty member at Evergreen Valley College. Previously, Mark was a science instructor at Silver Creek High School for 33 years, where he initiated a forensic science magnet. This included course offerings in Biotechnology and Forensic Science.
- 6/22/2011 - Wilderness Leadership Training Bay Area Wilderness Training**
6/26/2011
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.bawt.org>
 This intensive, five day course is the heart of BAWT's programs. It is designed to give you the tools you need to take youth on multi-day backpacking adventures. Completion of the course allows you access to our equipment loan system. The training consists of a mandatory pre-trip meeting in San Francisco and five days of backpacking in the Sierra Nevada Mountains. You will learn about proper clothing, basic wilderness first aid, nutrition, equipment use, map & compass reading, leadership styles, group dynamics and more. Role plays are utilized to allow for a realistic back-country leadership experience. Participants will learn by doing! Food and transportation are provided. (No experience necessary) Nonaffiliated individuals may register, however priority is given to youth service organizations. Please choose the appropriate registration fee by selecting your annual agency budget (total support and revenue for the past fiscal year.) Please note: training costs for one individual are waived for organizations allowing use of a 15 person passenger van. 1.\$199,999 and under -- \$150
 2.\$200,000-\$999,999 -- \$250 3.\$1,000,000+ -- \$400 4.Unaffiliated Individual -- \$700
- 6/28/2011 Google Search Pragmatics Resource Area for Teachers (RAFT)**
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.raft.net/workshops/in-house>

Sharpening Your Search Skills: Sharpen your web searching skills by practicing in an open, supportive environment with experts from Google. This practicum is suitable for people who have already taken a web searching skills class, but is open to people who have searching questions they would like to explore. Class participants should come to the class with 2 problems that they would like to web search. We will go through those questions, learning best practices and improving our search skills. This two hour class will have ample time to explore intermediate and advanced searching techniques. INSTRUCTOR: Daniel M Russell is a research scientist at Google where he works in the area of search quality, with a focus on understanding what makes Google users happy in their use of web search. He studies how people do their searches, trying to understand the most common traps and pathways to successful searches. Dan has been a researcher at IBM's Almaden Research Center, Apple's Advanced Technology Group and Xerox PARC. He received his PhD from the University of Rochester, and remembers a time when email addresses didn't end in .com. He enjoys long distance running, making music and word play, becoming disgruntled when he can't do all three in one day.

- 6/28/2011 - RAFT Redwood City Innovation Institute** **Resource Area for Teachers (RAFT)**
6/29/2011 For Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.raft.net/workshops/in-house>
 (Two-day class: Tues. 6/28 & Wed. 6/29): RAFT's popular two-day Innovation Institute showcases simple and engaging ways to build 21st-century thinking skills into your classroom experience. Topics include creative thinking, brainstorming and brain-writing, problem-solving, rapid prototyping, and design challenge projects. Participants are also eligible for the RAFT Fellows Program. Repeated at RAFT San Jose on July 7th and 8th. INSTRUCTOR: Greg Brown is the current Director of Education at Resource Area For Teaching (RAFT), in San Jose, CA. Education Staff, RAFT consists of professional educators, with years of classroom experience, now working at Resource Area For Teaching.
- 6/26/2011 - The Edible Schoolyard Academy** **Edible Schoolyard**
6/29/2011 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.edibleschoolyard.org/esy-academy>
 Creating Garden and Kitchen Classrooms in Every Community
 The Chez Panisse Foundation presents The Edible Schoolyard Academy: Creating Garden and Kitchen Classrooms in Every Community. Each two-day academy will provide kitchen, garden, and classroom educators with tools for teaching Edible Education - an integrated approach to hands-on education in the kitchen, classroom, lunchroom and garden.
- 6/28/2011 - The Sun is Amazing! Workshop** **Center for Science Education-UC**
6/29/2011 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th **Space Science Lab**
<http://cse.ssl.berkeley.edu/cms/tabid/304/Default.aspx>
 Come and learn about NASA's exciting solar discoveries, experiment with engaging classroom projects to harness the Sun's power, and learn alongside other local teachers. This workshop is a unique opportunity for teachers of grades K-12 to learn about the Sun in a unique and exciting way! This workshop provides educators with proven curriculum and classroom materials that will enable you to teach about the Sun and align to California standards. Participants will receive certificates verifying number of hours of professional development. Participation provides educators with:
 ◦Free classroom solar kit (\$300 value) ◦Engaging, classroom-tested curricular resources ◦Access to solar scientists and engineers ◦Breakfast and lunch ◦Parking ◦Behind-the-scenes tours
 ◦Breakout sessions oriented to Educators of Grades K-4, 5-8, and 9-12
- 6/26/2011 - 2011 Summer Leadership Institute** **National Science Education**
6/30/2011 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th **Leadership Association**
<http://www.nsela.org/>
 East Tennessee State University - Preparing for the Next Generation Science Standards: The role of Data Modeling & Science Practices in the Reform of Science Curriculum for the 21st Century

July 2011

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- 6/27/2011 - 7/1/2011** **Urban Science Education Leaders(USEL) Academy for PD** **National Science Teachers Association**
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
www.nsta.org/2011usel
 Teams of educators will make the trip to Baltimore, Maryland, June 27–July 1. Registration requires teams of 5 educators to attend—1 district science coordinator/supervisor, 1 building administrator/principal/assistant principal, and 3 classroom teachers along with heart, mind, and a passion for learning and teaching science. In conjunction with Urban Science Education Leaders, NSTA offers an outstanding program with renowned educators Anne Tweed, Dr. Eleanor Rodriguez, and Camille J. Cooper who will facilitate. Both Tweed and Rodriguez have authored books that support the PD initiative. The featured presenter is Dr. Freeman A. Hrabowski III, co-founder, Meyerhoff Scholars Program, and co-author, *Beating the Odds and Overcoming the Odds*—two books about parenting strategies for raising high-achieving African American men and women. Participants at the USEL Academy will:
- Establish a distributed leadership model to guide a district plan
 - Create/modify a district strategic plan to improve science education
 - Advance best practices in your district
 - Develop as experienced practitioners to lead science improvement
 - Positively affect student achievement
- Fees: New Academy team (\$6,000), Returning Academy team (\$5,000). Fees include registration, program materials, Holiday Inner Harbor Baltimore lodging, June 27–July 1, and daily continental breakfast and lunch.
- 6/25/2011 - 7/1/2011** **Forestry Institute for Teachers - Tuolumne County** **Forestry Institute for Teachers**
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.forestryinstitute.org/>
 It's not too early to plan for the summer! These week-long workshops provide participants with Forestry curriculum resources guides, Project Learning Tree and Project Aquatic WILD training, and a \$100 stipend, plus housing, meals and curriculum materials.
- 7/4/2011** **July 4 - Aug 14, 2011 Online Professional Development** **American Museum of Natural History**
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://learn.amnh.org/>
 These six-week courses developed by Museum scientists and educators incorporate the Museum's rich resources including three-dimensional virtual specimens, videos from the field, and interactive simulations. Teachers participate in discussions and activities with the Museum's scientists and educators. Continuing education units and graduate credits are available. For more information go to <http://learn.amnh.org>.
 Summer 2011 - Session 2 July 4 2011 - August 14 2011. Offerings are: Earth: Inside and Out, Genetics, Genomics, Genethics, The Link Between Dinosaurs and Birds, The Ocean System, Evolution, The Solar System, Water, Climate Change, Sharks and Rays
- 6/25/2011 - 7/4/2011** **Amazon Rainforest Workshop** **Environmental Expeditions - Travel 2 Learn**
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.travel2learn.com>
 Participants often comment that this Amazon Rainforest Workshop is one of their most memorable lifetime experiences. The program introduces the many scientific and geographic dimensions of the Amazon rainforest and river system, while offering a unique opportunity to see how indigenous people rely on the rainforest for their food, shelter, medicine and livelihood. Together we fly to Iquitos in the upper Amazon basin in northern Peru. Immerse yourself in the rainforest. Experience local customs first-hand at the Culture and Craft Fair. Field sessions take place at: 1) Explorama Lodge; 2) ExplorNapo Lodge; and 3) the Amazon Conservatory of Tropical Studies (ACTS) near Iquitos. Please note that the Lima to Iquitos round-trip flight is included in the land cost of this workshop.
- 7/5/2011** **Google Tech Web Search** **Resource Area for Teachers (RAFT)**
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.raft.net/workshops/in-house>

Ever try to find something very specific and very technical? This class will help you discover strategies that work for searching out information in a particular topic area. We'll cover finding course notes and materials, illustrations, images, and parts for specific kinds of classes (e.g. science, math, technology). You'll learn how to find repositories, the use of domain-specific language, and terms to search out just what you need.

INSTRUCTOR: Daniel M Russell is a research scientist at Google where he works in the area of search quality, with a focus on understanding what makes Google users happy in their use of web search. He studies how people do their searches, trying to understand the most common traps and pathways to successful searches. Dan has been a researcher at IBM's Almaden Research Center, Apple's Advanced Technology Group and Xerox PARC. He received his PhD from the University of Rochester, and remembers a time when email addresses didn't end in .com. He enjoys long distance running, making music and word play, becoming disgruntled when he can't do all three in one day.

- 7/6/2011 Exploring Color & Light Resource Area for Teachers (RAFT)**
For Grades: 3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.raft.net/workshops/in-house>
Use spectrometers and rainbow glasses (diffraction grating) to explore light samples and learn about the color in visible light. See the spectral samples (light patterns) of various light-emitting materials, and explore a classroom activity of this for your students. Use filters in activities that are fun, and that help us understand about the colors in visible light. Then have fun with activities involving color mixing. Complimentary spectrometers and diffraction grating glasses will be given out. INSTRUCTOR: Tom Gates is a former Aerospace Education Specialist, now with RAFT's Education Department. He traveled extensively in the Western U.S. giving teacher workshops, classroom visits, and assembly programs with NASA for over 30 years. Tom teaches many of RAFT's Outreach workshops.
- 6/25/2011 - 2011 Summer Teacher Institute Workshops Exploratorium**
7/8/2011
For Grades: 6th;7th;8th;9th;10th;11th;12th
<http://www.exploratorium.edu>
two-week institutes focusing on physics, middle school–high school general science, life science, and mathematics for teachers new to the Exploratorium Teacher Institute. These institutes support the content and pedagogy described in the National and California State Standards. After completing one of these two-week professional development institutes, you become an alumnus of the Teacher Institute and are eligible to attend alumni institutes and workshops. The library also becomes available for project research. Participants are required to study at the Exploratorium for seven-and-a-half hours each day, Monday through Friday, for two weeks, following a Saturday orientation. Each participant will be awarded a stipend of \$1,000 after completing an institute. In past years, three units of credit from San Francisco State University or six units of graduate credit from the University of the Pacific were awarded through the program. Registration and paying for university credit takes place during the institutes. We anticipate the same types of credit to be offered during Summer 2011.
- 7/7/2011 - San Jose Innovation Institute Resource Area for Teachers (RAFT)**
7/8/2011
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.raft.net/workshops/in-house>
(Two-day workshop: Thurs. 7/7 & Fri. 7/8): RAFT's popular two-day Innovation Institute showcases simple and engaging ways to build 21st-century thinking skills into your classroom experience. Topics include creative thinking, brainstorming and brain-writing, problem-solving, rapid prototyping, and design challenge projects. Participants are also eligible for the RAFT Fellows Program. Repeated at RAFT Redwood City on June 28th and 29th. INSTRUCTOR: Greg Brown is the current Director of Education at Resource Area For Teaching (RAFT), in San Jose, CA. Education Staff, RAFT consists of professional educators, with years of classroom experience, now working at Resource Area For Teaching.
- 7/5/2011 - Eureka! Series-Sierra Nevada Institute-Climate Change California Institute for Biodiversity**
7/10/2011
For Grades: 6th;7th;8th;9th;10th;11th;12th
<http://eureka.org/main/node/122>
explore the causes and effects of climate change in the Sierra Nevada landscape. This institute will accommodate teachers of upper-grade sciences by concentrating on the more advanced topics of climate change and experimental design. After the success of our 2009 pilot program, we are excited to offer this course again with even more activities incorporating the latest scientific research. Two encore days are now included to help you incorporate institute materials into your curricula.

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org

- 7/11/2011 Earth, Sun and Moon - 5 week long Online Short Course National Science Teachers Association**
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
www.nsta.org/2011usel
 Care to take a different view? Join us for the new NSTA Online Short Course: Earth, Sun and Moon. This course explores the phenomena that can be explained by the position and motion of the Earth, the Moon, and the Sun. The focus is on topics supporting Standards and Benchmarks related to the heating of Earth's surface by the Sun, phases of the Moon, and the apparent changes in the position of objects in the night sky. This course will also include some of the basic details about Earth, including the characteristics that make it unique in our solar system, its composition, and its capacity to support life. During this course, particular emphasis will be given to NASA resources you can use with your students and inquiry based instruction models. This is the perfect course for science teachers interested in learning more about the topic or for those who would like a refresher course. Two graded, graduate level credits will be available for an additional fee. This introductory price includes access to the five live meetings and archives, the instructor's PowerPoint presentations, a discussion forum, and the required course materials: SciPack, Journal Articles and online NASA resources.
 •At the end of the course, all participants will have the opportunity to pass a final assessment and print a certificate from NSTA demonstrating their understanding and proficiency of the content.
 •Educators are encouraged to seek approval in advance from their district for continuing education credits that may be ascribed for participating in this online short course.
- 7/11/2011 Energy - 5 week Online Short Course National Science Teachers Association**
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
www.nsta.org/2011usel
 Confounded by kinetic and potential energy? Intimidated by thermal energy and heat? Mystified by the concepts of conduction, convection, and radiation? You are not alone. The NSTA Online Short Course: Energy is the perfect course for science teachers interested in learning more about the topic or for those who would like a refresher course. Two graded, graduate Credits will be available for an additional fee. Participants meet for five, live, online sessions with a content expert and NSTA staff for questions and discussions and work offline with self-paced materials to boost their content knowledge and understanding of the topic. This introductory price includes access to the five live meetings and archives, the instructor's PowerPoint presentations, a discussion forum, and the required course materials: SciPack, SciGuide, 2 Journal Articles, and Energy book.
 •At the end of the course, all participants will have the opportunity to pass a final assessment and print a certificate from NSTA demonstrating their understanding and proficiency of the content.
 •Educators are encouraged to seek approval in advance from their district for continuing education credits that may be ascribed for participating in this online short course.
- 7/12/2011 RAFT RWC Science Institute Resource Area for Teachers (RAFT)**
 For Grades: 3rd;4th;5th;6th;7th;8th
<http://www.raft.net/workshops/in-house>
 @ Redwood City. During this fast-moving Science Institute, RAFT instructors will present ten specific hands-on activities that cover core curriculum topics in Physical Science, Life Science, and Earth Science. Participants will be able to try the activities that most interest them, and take home a set of classroom materials ready for immediate use. A thought-provoking guest speaker will also be featured. Fellows Program Description: Shortly after the Institute, RAFT will select up to five "Science Fellows" to showcase their new skills and enthusiasm for science. Working in collaboration with the RAFT Education Team, the Fellows will offer a series of informal demos and hands-on lessons both at RAFT and in their schools. The Fellows will earn modest stipends for these activities. Repeated at RAFT San Jose on June 23rd. INSTRUCTOR: Michael Pollock taught hands-on science to both mainstream and special needs elementary students for 25 years. He currently works at RAFT helping to produce educational kits. Eric Welker is part of the RAFT Education staff, and is in charge of product displays and demos. Greg Brown is the current Director of Education at Resource Area For Teaching (RAFT), in San Jose, CA.
- 7/9/2011 - Down Under, Out Yonder - Apply by Feb. 25 Gulf of Mexico Foundation**
7/13/2011 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.gulfmex.org/iwwe.htm>

The Gulf of Mexico Foundation's annual Down Under, Out Yonder (DUOY) coral reef workshop and scuba diving expedition is sponsored by ConocoPhillips for K-12 nationwide. This five-day workshop includes the 2-day Corals to Classrooms land-based portion conducted at the Flower Garden Banks National Marine Sanctuary (FGBNMS) offices in Galveston, Texas. Afterwards, participants explore coral reef habitats through three days of scuba diving aboard the M/V Fling, a 100-foot live-aboard dive boat. Non-diving educators may participate in the Corals to Classrooms workshop only and forego the DUOY diving component. The total cost for the DUOY expedition is \$250. Plus, teachers receive Texas SBEC credit for completing the 2-day Corals to Classrooms workshop or for the completion of the entire 5-day workshop. By providing educators with this participatory field experience, the Gulf of Mexico Foundation hopes to encourage not only the awareness but the stewardship and conservation of our important coral reef habitats.

- 7/14/2011** **Google Sites** **Resource Area for Teachers (RAFT)**
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.raft.net/workshops/in-house>
Google Sites is Google's free web page creator. Create a website to communicate important information to families or create a website where students can share their work. Customize your page, and then become familiar with the different features of Google Sites. INSTRUCTOR: Kevin Brookhouser is a humanities teacher at York School in Monterey, CA, where he has been teaching with technology for over 10 years. Kevin is a Google Certified Teacher and a Google 'Apps for Education' Certified Trainer.
- 7/14/2011** **Art & Science of Plastic** **Resource Area for Teachers (RAFT)**
For Grades: 6th;7th;8th
<http://www.raft.net/workshops/in-house>
When you think of 'plastic,' do you think of art or science? You can paint, shrink and cut plastic. You can also bend it, float it, and build with it. With an artist and a scientist to lead the way, explore the possibilities and do projects that will encourage your students to 'think outside the box' when it comes to an everyday material: plastic. INSTRUCTOR: Elle Arnot, MFA from the Art Institute of Chicago, is currently a high school art teacher in the Campbell School district. She has over 20 years experience teaching all grade levels in a variety of media and has worked in industry in illustration, graphic design and marketing. Ms Arnot has also been a provider of outreach art and summer programs for grades k-8. Eric Welker is part of the RAFT Education staff, and is in charge of product displays and demos.
- 7/11/2011 -** **Project-Based Science - FREE** **Monterey Bay Aquarium**
7/15/2011
For Grades: 6th;7th;8th
<http://www.mbayaq.org>
Plus follow-up sessions. Local middle school teachers can attend the Project-Based Science Institute. The institute week and follow-up sessions are focused on how to incorporate long-term, environmentally focused projects into your curriculum. You will engage in discussions with scientists, visit local field sites, and network with colleagues. Lunch and snacks are provided. Three Saturday follow-up sessions are required.
- 7/13/2011 -** **Seeds of Science/Roots of Reading** **Lawrence Hall of Science**
7/15/2011
For Grades: 2nd;3rd;4th;5th
<http://scienceandliteracy.org/teachersupport/professionaldevelopment>
These three day workshops are designed for those who are interested in using the new Seeds of Science/Roots of Reading curriculum for Grades 2–5, and are looking for a better understanding of the Seeds of Science/Roots of Reading philosophy and the benefits of integrating science and literacy. Through the generous support of Delta Education each attendee receives a teacher's guide and a set of student books from the unit of their choice. Topics and activities to be covered:
■ Presentation of our approach to integrating science and literacy.
■ Firsthand experience with activities from multiple Seeds of Science/Roots of Reading units.
■ Review of the student books and the role they serve in supporting inquiry science.
■ The benefits of the Teaching Support and Considerations features in the teacher guides and how to implement them.
■ Information about effectiveness studies.
■ Experience with the Seeds of Science/Roots of Reading assessment system.
Participants are responsible for lodging and travel. Attendees receive a free teacher's guide and a free set of student books.

- 7/16/2011 Earth Science Advanced Resource Area for Teachers (RAFT)**
 For Grades: 4th;5th;6th
<http://www.raft.net>
 Starting with a fundamental understanding of Earth Science, create grade-specific integrated math and science lessons, demonstrations, and experiments. Use RAFT materials and hands-on models to help with review as well as more advanced concepts. INSTRUCTOR: Elizabeth Brooking is a teacher at Wilson Elementary. She is a long time RAFT member and an Innovation Fellow.
- 7/10/2011 - Forestry Institute for Teachers - Humboldt County Forestry Institute for Teachers**
7/16/2011
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.forestryinstitute.org/>
 It's not too early to plan for the summer! These week-long workshops provide participants with Forestry curriculum resources guides, Project Learning Tree and Project Aquatic WILD training, and a \$100 stipend, plus housing, meals and curriculum materials.
- 7/16/2011 Earth Science Basics Resource Area for Teachers (RAFT)**
 For Grades: 4th;5th;6th
<http://www.raft.net>
 Give your students the building blocks for learning Earth Science, even when you have limited time and resources. Teach theory and concepts using hands-on projects that will make your students want to explore the subject more. Tectonics 101 was never so fun! INSTRUCTOR: Elizabeth Brooking is a teacher at Wilson Elementary. She is a long time RAFT member and an Innovation Fellow.
- 7/20/2011 Bending & Bouncing Light Resource Area for Teachers (RAFT)**
 For Grades: 5th;6th;7th;8th;9th;10th;11th;12th
<http://www.raft.net>
 The bending of light (refraction and diffraction) and the bouncing of light (reflection) are deeply rooted in our perception of the world. The activities will explore an understanding of these physical aspects of light. Complimentary laser pointers will be included to use in the classroom for these activities, as well as diffraction gratings. INSTRUCTOR: Tom Gates is a former Aerospace Education Specialist, now with RAFT's Education Department. He traveled extensively in the Western U.S. giving teacher workshops, classroom visits, and assembly programs with NASA for over 30 years. Tom teaches many of RAFT's Outreach workshops.
- 7/11/2011 - NASA's Multi-Wavelength Universe Sonoma State University**
7/22/2011
 For Grades: 6th;7th;8th;9th;10th;11th;12th
<http://epo.sonoma.edu/multiu.php>
 Middle and High-School teachers (both pre- and in-service) are invited to register for an online professional development course sponsored by several different NASA missions exploring our Universe across the Electromagnetic Spectrum. The course is offered for academic or continuing education credit through Sonoma State University. At the conclusion of the course, participants will be able to use astronomical examples (images, phenomena, telescopes) to describe the nature of light and color in terms of the regions of the Electromagnetic Spectrum. They will also be able to explain why NASA uses a variety of telescopes and space-based instruments to make observations of the Universe, to identify NASA resources for the classroom, and to understand how NASA resources can be used to address common student misconceptions about the nature of light and color.
- 7/18/2011 - Salmon Institute - FREE SPAWN (Salmon Protection And Watershed Network)**
7/22/2011
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.spawnusa.org/pages/page-284>
 The Salmon Protection and Watershed Network (SPAWN) is pleased to offer a unique professional development training experience in partnership with NOAA's Bay-Watershed Education and Training (B-WET) program. Focused on the connections that salmon provide between oceans and inland watersheds, the Salmon Institute combines expert instructors with standards-based curriculum to provide teachers and environmental educators the skills and tools to connect their students to their watersheds year-round.

- 7/17/2011 - Forestry Institute for Teachers - Shasta County** **Forestry Institute for Teachers**
7/23/2011 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.forestryinstitute.org/>
 It's not too early to plan for the summer! These week-long workshops provide participants with Forestry curriculum resources guides, Project Learning Tree and Project Aquatic WILD training, and a \$100 stipend, plus housing, meals and curriculum materials.
- 7/22/2011 - Sierra Nevada Teacher Workshop - Field Journaling** **California Institute for Biodiversity**
7/24/2011 For Grades: 4th;5th;6th;7th;8th
<http://eureka-series.org/main/node/123>
 Observe and connect with the natural world through journaling. When we journal, we take the time to stop and carefully observe and think about what we are looking at. We question things, for example, we wonder why a leaf is a certain shape, what advantages does this bring? We start to ask scientific questions and connect with the natural world around us. Set in the majestic Sierra Nevada, naturalist, author, and artist John Muir (Jack) Laws (California Academy of Sciences) will give you the tools to teach journaling to your students. Our course will have a strong focus on improving observational skills, asking scientific questions, and exploring nature through journaling. With language arts exercises and English language development (ELD) connections, you can integrate journaling into your classroom curriculum and fulfill California standards in science, language arts, and ELD. By completing this workshop you will have a classroom tool that gets your students to stop, question, and think scientifically about nature ultimately leading to a deeper understanding and appreciation. And it is a tool you can use anywhere, whether in the Sierra Nevada or out around your schoolyard.
- 7/18/2011 - Teacher Institute on Science and Sustainability** **California Academy of Sciences**
7/29/2011 For Grades: 3rd;4th;5th
<http://www.calacademy.org/teachers/tiss>
 TISS is an intensive two year professional development opportunity for 3rd - 5th teachers where teachers learn how to incorporate sustainability themes into their science curriculum. TISS teachers receive an annual \$2000 stipend, a membership to the Academy, a class set of science journals, classroom support, and more. Preference to teams of teachers (3-5 per school).
- 7/27/2011 - GEMS Associate training** **Lawrence Hall of Science**
7/29/2011 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
<http://www.lhs.berkeley.edu>
 This session is designed for teachers with some familiarity with GEMS units who would like to take a leadership role in science teaching at their school and contribute to the professional development of their peers.
- 7/29/2011 - QUEST Science Education Institute 2011-2012** **KQED**
7/31/2011 For Grades: 6th;7th;8th;9th;10th;11th;12th
http://www.kqed.org/quest/education/professional_development
 The QUEST Science Education Institute is KQED Education's year-long professional development program for Bay Area science teachers and educators. During the Institute, we work with teams of science educators and leaders to provide training on using QUEST resources and creating science-based multimedia with students to enhance science education. A \$400 stipend is provided for participants.
 The QUEST Science Education Institute includes
 * training on how to use video and audio as effective teaching tools.
 * training on media-making tools, such as Google Maps, iMovie and Movie Maker, and a media-making toolkit for use in science classrooms and programs.
 * guidance in designing a multimedia-based project to implement in your science classroom or program.
 * support with project implementation.
 * Each team must have 4-7 members.

August 2011

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- 8/4/2011 Grant Writing 101 Resource Area for Teachers (RAFT)**
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.raft.net/workshops/in-house>
 Want to write a compelling proposal to fund a favorite project? Discover how to create a strong proposal that highlights what you do and the rationale for seeking funds. Attendees are encouraged to bring grant opportunities to the workshop. INSTRUCTOR: Anne Wellner de Veer is the Corporate & Foundation Relations Manager for Resource Area For Teaching (RAFT).
- 8/4/2011 Google Sites Resource Area for Teachers (RAFT)**
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.raft.net/workshops/in-house>
 Google Sites is Google's free web page creator. Create a website to communicate important information to families or create a website where students can share their work. Customize your page, and then become familiar with the different features of Google Sites. INSTRUCTOR: Kevin Brookhouser is a humanities teacher at York School in Monterey, CA, where he has been teaching with technology for over 10 years. Kevin is a Google Certified Teacher and a Google 'Apps for Education' Certified Trainer.
- 8/3/2011 - 8/4/2011 Camping at the Presidio Training Golden Gate N.P. Conservancy**
 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
<http://www.parksconservancy.org/our-work/crissy/programs/camping-at-the-presidio.html>
 The CAP Leadership Training is designed to provide group leaders with the skills and resources to plan and lead a youth camping trip in the Presidio and beyond. During the two-day, one-night training session, group leaders acquire technical camping skills and become familiar with the Presidio's natural and cultural resources. They are trained to lead place-based nature hikes and other outdoor activities as well as learn about the process for reserving a camping trip through the CAP program. After participants complete the CAP Leadership Training program, they can begin to prepare for their camping trip to the Presidio's Rob Hill Campground.
- 8/6/2011 Behind the Scenes with Chemistry Resource Area for Teachers (RAFT)**
 For Grades: K;1st;2nd;3rd;4th;5th
<http://www.raft.net>
 Discover some of the chemistry secrets behind common special effects in movies such as Flubber, Ghostbusters, and Harry Potter. Activities will cover states of matter, polymer chemistry, indicator solutions, and more. All of the activities in this workshop can be easily duplicated in any classroom. No prior chemistry experience needed. Background information, complete instructions, and many supplies will be provided. (This is a half-day repeat of some of the more popular activities from the Santa Clara Valley Section of the American Chemical Society class in October 2010.) INSTRUCTOR: Juanita Ryan is a recently retired elementary school teacher. She has taught first through fifth grades at Toyon School in the Berryessa Union School District.
- 8/10/2011 C"RAFT"Y Moon Activities Resource Area for Teachers (RAFT)**
 For Grades: 2nd;3rd;4th;5th;6th;7th;8th
<http://www.raft.net>
 This will be a potpourri of hands-on activities to help students understand more about the Moon: rotation of the Moon, and why we only see one side from Earth; the different appearance of the near-side and far-side of the Moon; the Moon phases and some neat ways to teach about phases; the size of the Moon and its distance from Earth. Complimentary Moon phase kits and other RAFT materials will be given out. INSTRUCTOR: Tom Gates is a former Aerospace Education Specialist, now with RAFT's Education Department. He traveled extensively in the Western U.S. giving teacher workshops, classroom visits, and assembly programs with NASA for over 30 years. Tom teaches many of RAFT's Outreach workshops.
- 8/12/2011 - 8/13/2011 Bay Area Project Astro Workshops - reg by May 23 Astronomical Society of the Pacific**
 For Grades: 3rd;4th;5th;6th;7th;8th
<http://www.astrosociety.org/education/astro/bayarea/teacher.html>
 These workshops are required in order to be paired up with an astronomer for a minimum of four in-class visits during the coming school year. Popular program. Sign up early. No prior astronomical teaching required.

8/16/2011 - **KQED Science Lab PD - West Contra Costa**

KQED

8/18/2011

For Grades: K;1st;2nd;3rd

<http://www.kqed.org/education/earlylearning/sciencelab.jsp>

KQED Science Lab, a new program of KQED Education, is a professional development opportunity for West Contra Costa Unified School District educators designed to support multimedia integration in science for K to 3rd grade classrooms. KQED Science Lab equips teachers with the confidence to use new digital media tools, integrate PBS educational media with science content, and support science inquiry to help young learners thrive in science learning.

September 2011

9/10/2011 - **Camping at the Presidio Training**

Golden Gate N.P. Conservancy

9/11/2011

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

<http://www.parksconservancy.org/our-work/crissy/programs/camping-at-the-presidio.html>

The CAP Leadership Training is designed to provide group leaders with the skills and resources to plan and lead a youth camping trip in the Presidio and beyond. During the two-day, one-night training session, group leaders acquire technical camping skills and become familiar with the Presidio's natural and cultural resources. They are trained to lead place-based nature hikes and other outdoor activities as well as learn about the process for reserving a camping trip through the CAP program. After participants complete the CAP Leadership Training program, they can begin to prepare for their camping trip to the Presidio's Rob Hill Campground.

9/14/2011 - **Wilderness Leadership Training - sign up by 8/12/11**

Bay Area Wilderness Training

9/18/2011

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

<http://www.bawt.org>

This intensive, five day course is the heart of BAWT's programs. It is designed to give you the tools you need to take youth on multi-day backpacking adventures. Completion of the course allows you access to our equipment loan system. The training consists of a mandatory pre-trip meeting in San Francisco and five days of backpacking in the Sierra Nevada Mountains. You will learn about proper clothing, basic wilderness first aid, nutrition, equipment use, map & compass reading, leadership styles, group dynamics and more. Role plays are utilized to allow for a realistic back-country leadership experience. Participants will learn by doing! Food and transportation are provided. (No experience necessary) Nonaffiliated individuals may register, however priority is given to youth service organizations. Please choose the appropriate registration fee by selecting your annual agency budget (total support and revenue for the past fiscal year.) Please note: training costs for one individual are waived for organizations allowing use of a 15 person passenger van. 1.\$199,999 and under -- \$150
2.\$200,000-\$999,999 -- \$250 3.\$1,000,000+ -- \$400 4.Unaffiliated Individual -- \$700

October 2011

10/8/2011 - **2011 Nature Journaling: SF North Bay**

California Institute for Biodiversity

10/15/2011

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

<http://eurekaseries.org/main/node/125>

Awaken a love for the environment through the creation of a nature journal. Are your students uninterested in the outside world? Do they know little of the flora and fauna that inhabit their backyard? If so, get them excited about nature by having them create their own journal! With our workshop you will gain the skills and confidence to incorporate nature journaling in your classroom. Learn from naturalist, artist, and author John Muir (Jack) Laws (California Academy of Sciences) how to best observe the natural world and record your observations in your own nature journal. Discover language arts exercises and English language development standards that will help connect your journal to California content standards. By completing this workshop, you will have a journaling tool for your curriculum that will finally get your students to slow down in this technological age and appreciate the natural world.

October 8 @ Samuel P. Taylor State Park & October 15 @ Tomales Bay State Park

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org

10/21/2011 - 2011 California Science Education Conference - Sacramento

10/23/2011 For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

http://www.cascience.org/csta/conf_home11.asp

Pasadena - This annual event is the premier annual professional development event for science teachers and educators in California. Conference events address all areas of science education, including life science, earth/space science, physical science, environmental science, literacy, English language development, and assessment. Ed Begley, Jr. is the key note speaker

**California Science Teachers
Association**



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Professional Development: Customized for Your School

Educator Workshops

<http://www.abag.ca.gov/bayarea/sfep>

Friends of the Estuary will work with you to design and present a tailored workshop for 10-100 educators. Workshop topics include: wetlands, endangered species, wildlife, bats, plants, Adopt a Watershed, Marine Debris, Project Learning Tree, Project Wild and Aquatic Wild, as well as new topic areas.

Friends of the Estuary

Private Workshops

<http://www.thewatershedproject.org>

One or multiple day workshops can be scheduled with different focuses. Teachers can choose to receive professional development in watershed educational standards, or learn to apply curriculum units to local environments. Facilitators can also demonstrate a field study or mapping with students.

The Watershed Project

Professional Development at your School

<http://www.calacademy.org>

Many different workshops are available to come to your school for professional development. Examples are: Sketching and Journal Keeping for the Science Classroom, Owl Pellets and Beyond, Herbivore, Omnivore, Carnivore: A study of Structure and Function

California Academy of Sciences

RAFT Outreach Workshops

<http://www.raft.net>

RAFT offers a variety of hands-on science workshops for teachers. They can be scheduled at your school. Topics include - THE POWER OF HANDS-ON TEACHING, On The Move: Science Workshops: (Catch a Wave , A Model Science Class, Let's Mix Things Up , Attractive Science! Exploring Magnetism). Price includes teaching kits

Resource Area for Teachers (RAFT)

Teacher Training/Team Building - Physical Sciences

<http://www.rockitscience.org>

Teachers, learn to do Rock-it Science lessons yourself. Our group experiments also make great team building/diversity training activities. We'll customize a program to suit your needs. Pick from a wide variety of Physical Science topics (Matter, Energy, Chemistry, Force and Motion, Simple Machines, Electricity). Maximum: 40 teachers Price: \$250/hr, minimum 3 hrs

Rock-It Science

Using Technology to Meet California State Standards!

<http://www.tomsnyder.com>

This software training bundle includes 1 full-day workshop in which teachers learn to: (1) evaluate how different software, Internet activities, and lesson plans correlate to state frameworks, (2) find, evaluate, and utilize Internet sites that support teaching objectives, (3) align software and Internet resources with state standards in K-8 Math, Science, Social Studies, and English Language Arts. Workshops can be tailored to meet your Internet and computer in the classroom needs.

Tom Snyder Productions

Whole School Science Professional Development

<http://www.crscience.org>

Community Resources for Science

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org

CRS workshops are designed to help build knowledge, skills and confidence in science teaching. Our workshops are fast-paced sessions that provide teachers with techniques, resource connections, tools, and planning time. Workshops are offered to both teacher groups of ten or more and whole faculties. Whole-school workshops are offered on-site to let faculties work together as a school community to accomplish their science goals and understand student learning. We support the development of teachers who are able to plan, teach, and refine strong, subject-integrated science lessons using an inquiry-based approach to their teaching and their own professional development. Standards-based Science Lesson Planning (three 90-minute sessions), Articulated Lesson Demonstration (three 120-minute sessions), Using Internet Resources for Science (one to three 90-minute sessions), Using Inquiry to Teach Science (three 90-minute sessions), Retaining Science Knowledge (two 90-minute sessions), Understanding Student Learning (three 90-minute sessions), On-Site Science Enrichment (as requested)

Your Own Design

<http://www.bananaslugstringband.com/pages/workshops.html>

Banana Slug String Band will collaborate with you to develop a workshop that fits your needs by combining concepts, songs and strategies from a wide range of material.

Banana Slug String Band

Environmental Education Services

<http://www.kidsforthebay.org>

Grade level and whole faculty workshops, One-on-one support, Lesson modeling in teachers' classrooms, Curricula, resources, and equipment. Week-Long Summer Institute for Educators, Lesson planning consultations in the following areas: Implementing a community-based student-led action project, Thematic integration, Developing and implementing critical thinking questioning strategies, Addressing the diverse learning needs of students, Teaching State Standards, Addressing the needs of English language learners.

Content Options: Local Watershed Studies, Developing Action Projects, Waste Reduction and Sustainable Practices, Safe Bay Fish Consumption, Studying and Learning in the Outdoors, Point Source & Non-Point Source Pollution Reduction, Environmental Justice, Water Conservation, Scientific Process Skill Development

Kids for the Bay

School Site Specific Trainings

<http://botanicalgarden.berkeley.edu/>

UC Botanical Garden

Wonders of Water Teacher Orientation

<http://www.spn.usace.army.mil/bmvc>

The teacher and field trip leader workshops are designed for the option of having their own guided tours around the model. This workshop provides knowledge about the model for their students with essential tools of preparation before their visit. This session will include the integration of hands-on activities using concepts of water quality, a tour of the model, current events, and pre-classroom activities for students. Please call for more information (415)-332-3871.

Bay Model Visitor Center

Customized Workshop

<http://www.lifelab.org>

Life Lab trainers will work with you to develop a customized workshop to meet your specific needs. Resolving issues with your garden site, working effectively with the special needs of your student population, and facilitating parent/community involvement are some of the many topics on which to focus your workshop.

Life Lab Science Program

Discovery Voyage on the Bay

<http://www.sfbaymsi.org>

The day begins aboard the Institute's research vessel, the ROBERT G. BROWNLEE, participating in hands-on activities that examine the fish, plankton, benthic invertebrates, and physical oceanography of an estuarine ecosystem. The afternoon is spent in our Discovery Classroom, exploring curriculum ideas and activities while developing lesson plans that bring science to your curriculum.

Marine Science Institute

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org

Group Workshops**San Francisco Zoo**

<http://www.sfzoo.org>

San Francisco Zoo staff is available to present workshops on Biodiversity, Animal Behavior, and other Zoo topics for already organized groups.

Staff Development Workshops**Randall Museum**

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

Project WET (water resources stewardship), Project WILD & Aquatic WILD (wildlife), Project Learning Tree (forests and trees), and Population Education (population study, exponential growth, and demographics) workshops emphasizes hands-on activities and integrated teaching strategies consistent with the New Science Standards.

Teaching the 4Rs - Reduce, Reuse, Recycle & Rot/Compost StopWaste.org

<http://www.stopwaste.org>

Gain valuable skills in leading your students through classroom activities that demonstrate the 4Rs: Reduce, Reuse, Recycle and Rot/Compost while teaching science concepts and ways to reduce waste and conserve natural resources. During the two-day workshop, teachers will experience and analyze activities from a new Teacher Guide; Doing the 4Rs, A Classroom Activity Guide to Teach Reduce, Reuse, Recycle and Rot. In addition to a copy of the activity guide, participants will also receive videos and other hands-on classroom materials that support teaching activities from the guide.

Using Video and Web resources in your classroom**KQED**

<http://www.kqed.org/ednet/>

KQED offers a wide range of professional development workshops focusing on the use of video in the classroom. They can focus on curriculum areas of your choice. Workshops can focus on making videos in the classroom or how to effectively use existing video and web resources in the classroom

Custom Designed Workshop - many topics**Oakland Zoo**

<http://www.oaklandzoo.org>

Zoo staff can design customized workshops to fit your teaching needs covering a broad range of science related subject areas. The current programs include:

Rain Forest Review (Grades 3-8) - A closer look at essential functions of a tropical rain forest; Suitcase For Survival (Grades 3-12) - Learn to use the U.S. Fish and Wildlife biofacts to teach about endangered animals and the illegal wildlife trade; There Are Treasures At Your Zoo (Grades K-8) - Use the classic treasure hunt to learn about adaptations, habitats, and animals; Biodiversity (Grades 6-12) Learn what biodiversity is; the threats facing it and what you can do; Conservation (Grades 5-12) Learn about conservation through group activities and small group discussions taken from Project Wild. Habitats and Adaptations (Grade6-12) Learn about animal adaptations during a scavenger hunt in the zoo!



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Teacher Grants: Specific Deadlines

May 2011

5/17/2011 **The Margaret Nicholson Distinguished Service Award**
California Science Teachers Association

Recognition http://www.cascience.org/csta/res_awards.asp

The Margaret Nicholson Distinguished Service Award honors an individual who has made a significant contribution to science education in the state and who, through years of leadership and service, has truly made a positive impact on the quality of science teaching.

5/17/2011 **The CSTA Future Science Teacher Award**
California Science Teachers Association

Recognition http://www.cascience.org/csta/res_awards.asp

recognizes college students who demonstrate an interest in and commitment to science education through volunteer, teaching, and professional organization activities and who show promise to become outstanding science educators.

5/20/2011 **Amy Chamberlain Scholarship Fund**
Bay Area Wilderness Training

Approximate value - \$1000 <http://www.bawt.org/amy-chamberlain/>

Each scholarship provides full tuition to BAWT's to the Wilderness Leadership Training (WLT), as well as additional post-course support services including site visits by BAWT staff or scholarship committee members during the 12 months following WLT participation. Must apply one month prior to the class you desire to take.

5/31/2011 **Captain Planet Foundation Grant**
Captain Planet Foundation

\$250-2,500 <http://captainplanetfoundation.org/default.aspx?pid=3&tab=apply>

In order to be considered for funding, proposals must:

- Promote understanding of environmental issues
- Focus on hands-on involvement
- Involve children and young adults 6-18 (elementary through high school)
- Promote interaction and cooperation within the group
- Help young people develop planning and problem solving skills
- Include adult supervision
- Commit to follow-up communication with the Foundation (specific requirements are explained once the grant has been awarded)

June 2011

6/1/2011 **School Garden Grants**
Western Growers Foundation

\$1500+ <http://www.wga.com/default.php?id=138>

We're here to help you find the science resources you're looking for. Email us at CRS@crs-science.org

Funds for growing gardens at school sites. Funds must be used for supplies, curriculum, resources or other materials related to starting or maintaining a garden. Examples include tools, seeds and plants, soil, irrigation related items, materials for raised beds, gloves, composting materials etc. A small portion of the funds may be used for a garden coordinator, but not the entire cash award. Funds should not be spent strictly on butterfly or other ornamental gardens.

6/1/2011 Learning & Leadership Grants

The NEA Foundation

\$5000

<http://www.neafoundation.org/pages/educators/grant-programs/learning-and-leadership/>

Grant supports public school teachers, public education support professionals, and/or faculty and staff in public institutions of higher education for one of the following purposes:

- Grants to individuals fund participation in high-quality professional development experiences, such as summer institutes or action research; or
- Grants to groups fund collegial study, including study groups, action research, lesson study, or mentoring experiences for faculty or staff new to an assignment.

6/1/2011 Vernier Technology Awards

National Science Teachers Association

\$10,000 in Vernier products

<http://www.nsta.org/about/awards.aspx>

The Vernier Technology Awards will recognize and reward the innovative use of data collection technology using a computer, graphing calculator, or other handheld in the science classroom. A total of seven awards are presented: one award at the elementary level (grades K–5); two awards at the middle level (grades 6–8); three awards at the high school level (grades 9–12); one award at the college level. Award: Each award will consist of \$1,000 towards expenses to attend the NSTA National Conference, \$1,000 in cash for the teacher, and \$1,000 in Vernier products

6/1/2011 Ocean Guardian School Grant

National Marine Sanctuaries

\$2,000-5,000

http://sanctuaries.noaa.gov/education/ocean_guardian/welcome.html

Applications are reviewed based on five criteria, each criteria weighted equally:

- a. The number of classes and grades involved;
- b. The impact of the project on the school and/or the impact of the project on the community;
- c. The school is an underserved/underrepresented school;
- d. The outreach plan for communicating to others about your project and its goals;
- e. The connection of the project to the health and conservation of the watershed, ocean and/or national marine sanctuary due date JUNE 1 (for a September 1st project start date)

6/1/2011 Student Achievement Grants

The NEA Foundation

\$5000

<http://www.neafoundation.org/pages/educators/grant-programs/student-achievement-grants/>

The proposed work should engage students in critical thinking and problem solving that deepen their knowledge of standards-based subject matter. The work should also improve students' habits of inquiry, self-directed learning, and critical reflection. Proposals for work resulting in low-income and minority student success with honors, advanced placement, or other challenging curricula are particularly encouraged.

6/1/2011 Sol Hirsch Education Fund Grants

National Weather Association

\$750

<http://www.nwas.org/grants/solhirsch.php>

Awarded annually to teachers/educators of grades K-12 to help improve the education of their students, school and/or community in the science of meteorology. The Grant is intended to allow teachers to:

- Purchase scientific materials and / or equipment for the classroom, school or community.
- Begin new school and / or community science outreach and education programs.
- Enhance and / or expand existing meteorology / science education programs.
- Attend accredited courses, workshops and /or conferences related to meteorology that will significantly enhance their teaching activities.

6/1/2011 AIAA Foundation Educator Achievement Award

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org

AIAA Foundation

Recognition and trip to Washington DC <http://www.aiaa.org/content.cfm?pageid=217>
Every two years, the AIAA Foundation recognizes up to seven outstanding educators for their accomplishments in exciting K-12 students about math and science and preparing them to use and contribute to tomorrow's technologies.

6/15/2011

School Garden Grant

California Fertilizer Foundation

\$1200

<http://www.calfertilizer.org/grant.htm>

Annually provides 24 grants for \$1,200 each to schools throughout California (12 awarded twice a year). At the end of each year, winning schools can re-apply for a progress grant of \$1,500 and a free agricultural field trip. Through the garden program, CFF provides direct funding to California schools for garden projects. The gardens provide an opportunity for students, teachers and parents to truly "grow" together.

6/30/2011

Education Grants Program

Save the Redwoods League

\$500-\$5000

<http://www.savetheredwoods.org/education/edgrants.shtml>

Funds schools, park cooperating associations, and other qualified nonprofits engaged in quality redwood education. The Education Grants Program was established to foster a deeper understanding of redwood forests through personal visits and educational experiences among a broad, diverse audience.

July 2011

7/1/2011

New Science Teacher Academy

National Science Teachers Association

<http://www.nsta.org/academy/default.aspx>

The NSTA is offering 1-year fellowships to second and third-year middle and high school science teachers to attend the New Science Teacher Academy. Fellows will receive comprehensive NSTA membership, online mentoring with trained mentors, facilitated online inquiries for science content and pedagogy that applies to classroom situations, regular online discussion about teaching dilemmas, attendance at NSTA's national conference (including airfare, accommodations, and registration fees), and participation in special workshops at the NSTA conference.

7/1/2011

The Bauder Endowment for the Support of Physics Teaching

American Association of Physics Teachers

\$500

<http://www.aapt.org/Programs/grants/bauderfund.cfm>

Supports activities for AAPT members, such as workshops at the local level, that promote physics education utilizing physics apparatus. Funds can purchase equipment and materials used by participants in the workshop. Does not reimburse indirect or administrative costs.

7/15/2011

Kids In Need Teacher Grants - Applications Available

Kids In Need Foundation

\$100-500

http://www.kinf.org/grants/grant_applications.php

Multiple funders and grants. Similar applications. You can submit a different project to each of the funders. Funds projects that make creative use of common teaching aids, approach curriculum from an imaginative angle, or tie nontraditional concepts together for the purpose of illustrating commonalities. Innovation and merit account for 40% of the evaluation.

August 2011

8/1/2011

Grants For Grades 6 - 12

Toshiba America Foundation

\$5000 +

<http://www.toshiba.com/taf/612.jsp>

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org

Toshiba America Foundation is currently accepting applications from teachers who are passionate about making science and mathematics more engaging for their students. Do you teach 6-12 science or math? Do you have a wish list of instructional equipment that will make learning more exciting for your students?

8/1/2011 **Field Trip Grants - Applications Available**
Target

\$700 <http://sites.target.com/site/en/company/page.jsp?contentId=WCMP04-031880>
May be used to fund trips ranging from visits to art museums and environmental projects to cultural events and civic experiences. Apply on-line. The Earlier you apply in the fall the better

8/1/2011 **American Honda Foundation Grant**
American Honda Foundation

\$20,000-60,000 <http://corporate.honda.com/america/philanthropy.aspx?id=ahf>
Supports youth education with a specific focus on the STEM (science, technology, engineering and mathematics) subjects in addition to the environment.

September 2011

9/20/2011 **Melinda Gray Ardia Environmental Foundation Grant**
Melinda Gray Ardia Environmental Foundation, Ltd.

\$1500 <http://www.mgaef.org/index.html>
Supports curricula that empowers and encourages students to become involved in solving environmental and social problems. Eligible applicants are K-12 educators that wish to develop environmental curricula that integrates field activities and classroom teaching.

October 2011

10/1/2011 **Ocean Guardian School Grant**
National Marine Sanctuaries

\$2,000-5,000 http://sanctuaries.noaa.gov/education/ocean_guardian/welcome.html
Applications are reviewed based on five criteria, each criteria weighted equally:
a. The number of classes and grades involved;
b. The impact of the project on the school and/or the impact of the project on the community;
c. The school is an underserved/underrepresented school;
d. The outreach plan for communicating to others about your project and its goals;
e. The connection of the project to the health and conservation of the watershed, ocean and/or national marine sanctuary due date OCTOBER 1 (for a January 1st project start date).

10/14/2011 **Lowe's Toolbox for Education Grant**
Lowe's Charitable & Education Foundation

\$5000 <http://www.toolboxforeducation.com/>
Lowe's Charitable and Educational Foundation is focusing on basic, one-time project needs. In 2010, basic needs will take priority.

10/31/2011 **Environmental Education Grants**
The Lawrence Foundation

\$5000 <http://www.thelawrencefoundation.org/grants/>
The foundation is focused on making grants to support environmental, education, human services and other causes although our interests are fairly diverse and may lead us into other areas on an occasional basis.

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Teacher Grants: Rolling or Continuous Deadlines

Teacher wishlist	Adopt-A-Classroom Grants Adopt-A-Classroom http://www.adoptaclassroom.org Register your public school classroom online. This site pairs you with people who want to give money to your classroom to support your teaching.
Approximate value - \$1000	Amy Chamberlain Scholarship Fund Bay Area Wilderness Training http://www.bawt.org/amy-chamberlain/ Each scholarship provides full tuition to BAWT's flagship service offering, the Wilderness Leadership Training (WLT), as well as additional post-course support services including site visits by BAWT staff or scholarship committee members during the 12 months following WLT participation. Must apply one month prior to the class you desire to take.
discount bus rental rate	Black Te Community Bus Black Tie Transportation http://www.blacktietrans.com/fleet.php#bus The Black Tie Community Bus is offered to non-profit organizations in our community and for schools to transport children ages K-12 for school outings. The bus is available at a discounted rate to those who apply in advance and meet the requirements of the application submission process. Seating: Grades K-4, 60 passengers (3 adults required) Grades 5-12, 42 passengers (2 adults required) Rates // \$75.00 per hr (5 hour min.) (Rate available only for those who meet the application requirements)
computer hardware	Classroom Computers Computers for Learning http://computersforlearning.gov/ The federal government has placed hundreds of thousands of surplus computers in schools across the country on a needs-first basis. Schools register and request equipment on the Computers for Learning web site, and federal agencies match their surplus equipment to schools with those needs. Most of the donated machines are older models, but as the government continues to upgrade its computer systems. Computers and equipment are not refurbished by the government before being shipped to schools, nor are they covered by warranty.
\$100-1000	Classroom Wishlist DonorsChoose.org http://www.donorschoose.org/ Teachers describe classroom needs. Contributors decide where they want to put their money.
\$1000	Small Grants & Product Donations Dreyer's Grand Ice Cream Foundation http://www.dreyersinc.com/dreyersfoundation/small_grants.asp The Foundation makes small grants (\$1,000 or less) and donates ice cream products and gift certificates/auction items to bona fide nonprofit organizations for events. These proposals are reviewed on a monthly basis.

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discounted bus Parks Express Transportation Services

East Bay Regional Parks District

<http://www.ebparks.org>

Discount buses (\$110) for fieldtrips to East Bay Regional Parks. Schools must have at least 30% of students in Free or Reduced Lunch Program. 40 passengers minimum. They start making assignments in January. Apply ASAP even for programs in fall. Need not have naturalist program pre-arranged. They will help coordinate with naturalist program

\$100 to \$500 Funds for Outdoor Field Trips

Field Trip Foundation

http://www.fieldtripgroup.org/for_teachers.html

Field Trip Foundation (FTF) provides grants for outdoor field trips for grades 3rd through 5th which provide environmental education opportunities for Bay Area students. Grants are provided to teachers in Bay Area schools with a majority of low-income students. Grants range from \$100 to \$500, but exceptional grants may be approved up to \$1000. Grants with a lower cost per student will be more favorably evaluated (e.g. a grant for \$500 for 50 students is more likely to be approved than a \$500 grant for 30 students). Grants requests are evaluated on their educational quality and ability to enhance/leverage in-class curriculum.

Education Grant Database

GrantWrangler

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

Check out this website for all types of grants for classrooms

\$500 in materials

Classroom Wishlist

iLoveSchools.com

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

Register your school with I Love Schools.com. The site matches you up with people wanting to donate equipment to your school

\$5000-25,000 Jordan Fundamentals Grant Program

Nike - Jordan Fundamentals

<http://www.nike.com/jumpman23/features/fundamentals/overview.html>

Applicants must develop and implement an educational approach that supports improved student academic achievement and/or social/emotional/behavioral interventions. Proposals may attempt to do this through any of the following program objectives: *student engagement *student - teacher relationships *building the capacity of teachers

\$5000 of less Mini-Grants For Grades 6 - 12

Toshiba America Foundation

<http://www.toshiba.com/taf/612.jsp>

Wanted: Classroom Innovators! Toshiba America Foundation is accepting applications from teachers who are passionate about making science and mathematics more engaging for their students. Do you have a wish list of instructional equipment that will make learning more exciting for your students?



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Temporary & New Science Exhibits Around the Bay Area

Bay Area Discovery Museum

Sausalito <http://www.badm.org>

Curious George: Let's Get Curious!

(June 18 – September 7, 2011) Letting curiosity and inquiry be their guides, visitors explore familiar buildings and locales from the Curious George™ book series and television show on PBS KIDS in Curious George™: Let's Get Curious! The exhibit presents key concepts in science, math and engineering, which are woven and layered throughout the exhibit. Activities invite visitors to learn like George-through direct experience and problem solving!

Bay Model Visitor Center

Sausalito <http://www.spn.usace.army.mil/bmvc>

California Coastal Art & Poetry Contest on Exhibit

(May 3 - June 5, 2011) - Presented by California Coastal Commission. Each year, California students K - 12th grade are invited to enter artwork or poetry inspired by the California coast. Their work conveys their perceptions of and experiences with our coast, whether whimsical, spiritual, or political. By encouraging youth to reflect on California's beaches and ocean, the Commission hopes to inspire a greater sense of stewardship for these natural places.

California Academy of Sciences

San Francisco <http://www.calacademy.org>

Snakes and Lizards: Summer of Slither

From May 9 to September 5, 2011, over 60 new, scaled reptiles are invading the Academy. Snakes and lizards are found everywhere from harsh desert to lush rainforest, high in the treetops and beneath the ground. Don't miss the summer of slither! Special members-only preview days are May 6 – May 8.

Chabot Space and Science Center

Oakland <http://www.chabotspace.org>

Bill Nye's Climate Lab Exhibit

NEW EXHIBIT: This hands-on exhibition features air, water, and land galleries exploring how climate change affects Earth's interconnected systems, and how to use the Sun, wind, land, and water to generate clean energy. Two Bill Nye laboratories will feature innovative technology and design in transportation and the built environment.

Children's Discovery Museum of San Jose

San Jose <http://www.cdm.org>

Mammoth Discovery!

NEW EXHIBIT(Opens June 11, 2011) A thirteen-foot tall mammoth replica based on bones found in the Guadalupe River near San Jose Airport, this large creature gives us a sense of the way life used to be in Silicon Valley. Mammoth Discovery!, will spark the scientist within each of us to make discoveries, dig for more information, and tell the world about what has been found. Uncover a new world as you dig for fossils, compare teeth, learn about the creatures that roamed San Jose during the Ice Age, and become a citizen scientist!

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Exploratorium

San Francisco

<http://www.exploratorium.edu>

Rolling Through the Bay - a Kinetic Toothpick San Francisco

(On view in the Exploratorium's Tinkering Studio - through June 19, 2011.) Visitors will be able to see the amazing kinetic sculptural homage to San Francisco - composed entirely out of toothpicks. Titled "Rolling Through the Bay," artist Scott Weaver began this piece in 1974 – working on and off it over the past 34 years. He's logged in approximately 3000 hours in studio time with this one art work, and it continues to grow.

Science of Baseball

(May 1 – September 4, 2011) Ever wonder why a curveball curves, or what's inside of a baseball? Find out at the Exploratorium's Science of Baseball self-guided tour, available at the Exploratorium from May 1-September 4. Tuesday, May 24, offers a special appearance from a San Francisco Giants team member. In the Science of Baseball tour, you'll investigate the insides of that iconic leather-covered ball, test your reaction time with a bat, gauge your aim through a pair of prism goggles, and more. Pick up a handout when you visit and check out some favorite baseball-related exhibits. You'll discover why players learn to run on the balls of their feet, what it feels like to soak in the adoration of a crowd, and why the singer needs to wear earplugs to get through the national anthem. (Sound does tricky things in ballparks.)

ColorFest

(July 1 – September 5, 2011) A celebration of light and color in our world. From perception to pigments, this two-month extravaganza will feature a full spectrum of color-related exhibits, film programs, a speaker series, performances and activities.

Hayward Shoreline Interpretive Center

Hayward

<http://www.haywardrec.org/hayshore.html>

Gateway to the Salt Marsh: the History of the Hayward Shoreline Interpretive Center

NEW EXHIBIT (Opens May 21, 2011) - The Hayward Shoreline Interpretive Center is celebrating 25 years of interpreting the Bay and inspiring our community. We are marking this important milestone by hosting an anniversary celebration and exhibit opening at the Interpretive Center on Saturday, May 21, 2011 from 1-4 p.m. The celebration coincides with an exhibit entitled "Gateway to the Salt Marsh: the History of the Hayward Shoreline Interpretive Center." The exhibit will highlight the history, purpose, staff, and impact of the Interpretive Center since its opening on July 11, 1986.

Lawrence Hall of Science

Berkeley

<http://www.lhs.berkeley.edu>

Ingenuity in Action: Start Small.Think Big.

NEW EXHIBIT: Specially designed experiences enable students of all ages to engage in problem-solving, sharing ideas and creating solutions as they test their own creations and then consider and observe the impact of modifications. •Fly High: Students get to choose from a selection of materials and create, test, and tweak flying things in vertical wind tunnels as they experience the fundamentals of wind resistance and flight. •Design and Drive: Students work together as they optimize vehicles for traction and control on tracks of their own design. A great way to build understanding of friction and motion. •Span the Gap: Students experiment with the basics of bridge design and learn about load bearing and structural integrity. They construct and test bridges of various types from beam to suspension, incorporating elements like the single anchor suspension of the new Bay Bridge now under construction.

Dinosaurs Unearthed

(May 28, 2011 - January 1, 2012) Explore their world like never before in Dinosaurs Unearthed. Scientists, engineers, and artists designed these creatures to be as lifelike as possible. The gigantic animals open their jaws, blink their eyes, move their limbs ... and more. You will walk among roaring, stomping, realistic-looking robotics.

Monterey Bay Aquarium

Monterey

<http://www.mbayaq.org>

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org

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Temporary Exhibits

The Open Sea

NEW EXHIBIT - (Opens July 2011) The Monterey Bay Aquarium is transforming the way people see the oceans with a new perspective on the vast, virtually unexplored waters of the open sea. In July of 2011, the Aquarium's acclaimed Outer Bay galleries re-open as The Open Sea —shining light on epic migrations of ocean animals across the Pacific and the constant motion of life in the open ocean. Get carried beyond our coasts, to a vast world of deep, open water. Immense swirls of schooling fishes, pulsing jellies, skilled predators such as sharks and tunas, and seasoned travelers like sea turtles and seabirds share this wild territory. In one instant the water appears empty; in another, teeming with life. Remarkable new species including tufted puffins, sandbar sharks and black sea nettles will join aquarium favorites such as tunas, rays, sea turtles and the occasional great white shark to introduce visitors to life in this sweeping realm.

The Tech Museum of Innovation

San Jose <http://www.thetech.org>

The Tech Silicon Valley Innovation Gallery

NEW EXHIBIT: Experience the latest trends from Silicon Valley that shape our lives and our future - technologies that enable us to communicate easily and that put creativity in the hands of the individual. Be in touch with technology supporting the digital media arts as well as technologies that have changed how the world creates, communicates, lives, works and plays.

Zeum

San Francisco <http://www.zeum.org>

World Savvy Art Exhibit

(May 14 - July 17, 2011) Exhibit celebrates the students and their teachers of the Bay Area who have been exploring the theme 'Sustainable Communities' with the support of World Savvy. The art exhibition and performances are comprised of creative and thought provoking multimedia meditations on local to global sustainability, and the state of the planet through the eyes of Bay Area youth.