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


Table of Contents

- Science Program Deadlines
- Professional Development Calendar
- Science Education Grant Deadlines
- Special & New Science Exhibits around the Bay Area
Program Deadlines

May 2011

5/13/2011  Science Lab PD - West Contra Costa - Application Deadline
           KQED
           http://www.kqed.org/education/early/learning/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

           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

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Printed 5/4/2011  Deadlines
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 Fieldtrips 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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Printed 5/4/2011  
Deadlines 3
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 Visa 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 - SL  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

**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  
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

**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.

**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/2011use
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 - 6/18/2011    Forestry Institute for Teachers - Plumas County Forestry Institute for Teachers
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.

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Printed: 5/4/2011  Professional Development
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 - 6/22/2011  Mammoth Discovery! Summer Institute for Teachers  Children's Discovery Museum of San Jose
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.

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

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

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.


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.


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

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Printed: 5/4/2011 Professional Development
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.

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.

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.

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

For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://www.nselea.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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Urban Science Education Leaders (USEL) Academy for PD

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 Rodríguez, and Camille J. Cooper who will facilitate. Both Tweed and Rodríguez 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.

Forestry Institute for Teachers - Tuolumne County

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.

July 4 - Aug 14, 2011 Online Professional Development

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.


Amazon Rainforest Workshop

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.

Google Tech Web Search

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 spectrosopes 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 spectrosopes 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.


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 - 7/8/2011 San Jose Innovation Institute 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

(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 - 7/10/2011 Eureka! Series-Sierra Nevada Institute-Climate Change California Institute for Biodiversity

For Grades: 6th;7th;8th;9th;10th;11th;12th
http://eurekaseries.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

Printed: 5/4/2011 Professional Development 8
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.

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.gulfmex.org/wwwe.htm

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Printed: 5/4/2011  Professional Development
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 - 7/15/2011  Project-Based Science - FREE  Monterey Bay Aquarium
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 - 7/15/2011  Seeds of Science/Roots of Reading  Lawrence Hall of Science
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.

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Printed:  5/4/2011  Professional Development
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 - 7/16/2011  Forestry Institute for Teachers - Humboldt 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.

7/16/2011  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.

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 - 7/22/2011  Salmon Institute - FREE  SPAWN (Salmon Protection And Watershed Network)
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.

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Printed:  5/4/2011  Professional Development
7/17/2011 - 7/23/2011  Forestry Institute for Teachers - Shasta 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.

7/22/2011 - 7/24/2011  Sierra Nevada Teacher Workshop - Field Journaling  California Institute for Biodiversity

For Grades:  4th;5th;6th;7th;8th
http://eurekaseries.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 - 7/29/2011  Teacher Institute on Science and Sustainability  California Academy of Sciences

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 - 7/29/2011  GEMS Associate training  Lawrence Hall of Science

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.


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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Printed:  5/4/2011  Professional Development
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.


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


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.


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.
KQED Science Lab PD - West Contra Costa

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

Camping at the Presidio Training

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

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.

Wilderness Leadership Training - sign up by 8/12/11

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

Nature Journaling: SF North Bay

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

Printed: 5/4/2011
2011 California Science Education Conference - Sacramento

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


Pasedena - 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.
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.

**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.

**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

**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

**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

**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.

**Whole School Science Professional Development**

http://www.crscience.org

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

Printed: 5/3/2011
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.

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.

School Site Specific Trainings
http://botanicalgarden.berkeley.edu/

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.

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.

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.

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 and 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!
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


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Printed: 5/3/2011  Teacher Grants
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


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

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](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


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


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

**AI AA Foundation Educator Achievement Award**

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AIAA Foundation
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
http://www.calfertilizer.org/grant.htm
$1200
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
http://www.savetheredwoods.org/education/edgrants.shtml
$500-$5000
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
http://www.aapt.org/Programs/grants/bauderfund.cfm
$500
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
http://www.kinf.org/grants/grant_applications.php
$100-500
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
http://www.toshiba.com/taf/612.jsp
$5000 +

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=WCM04-031880
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.
## Teacher Grants: Rolling or Continuous Deadlines

<table>
<thead>
<tr>
<th>Teacher wishlist</th>
<th>Grants</th>
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<tbody>
<tr>
<td>Adopt-A-Classroom</td>
<td>Grants for Adopt-A-Classroom</td>
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<tr>
<td><a href="http://www.adoptaclassroom.org">http://www.adoptaclassroom.org</a></td>
<td>Register your public school classroom online. This site pairs you with people who want to give money to your classroom to support your teaching.</td>
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<tr>
<th>Approximate value - $1000</th>
<th>Grants for the Bay Area Wilderness Training</th>
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<td><a href="http://www.bawt.org/amy-chamberlain/">http://www.bawt.org/amy-chamberlain/</a></td>
<td>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.</td>
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<th>discount bus rental rate</th>
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<tr>
<td>Black Tie Transportation</td>
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<tr>
<td><a href="http://www.blacktietrans.com/fleet.php#bus">http://www.blacktietrans.com/fleet.php#bus</a></td>
<td>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)</td>
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<th>computer hardware</th>
<th>Grants for Classroom Computers</th>
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<tr>
<td>Computers for Learning</td>
<td>Classroom Computers</td>
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<tr>
<td><a href="http://computersforlearning.gov/">http://computersforlearning.gov/</a></td>
<td>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.</td>
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<tr>
<th>$100-1000</th>
<th>Grants for Classroom Wishlists</th>
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<th>$1000</th>
<th>Grants for Small Grants &amp; Product Donations</th>
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<tr>
<td>Small Grants &amp; Product Donations</td>
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<tr>
<td><a href="http://www.dreyersinc.com/dreyersfoundation/small_grants.asp">http://www.dreyersinc.com/dreyersfoundation/small_grants.asp</a></td>
<td>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.</td>
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*We're here to help you find the science resources you're looking for. Email us at CRS@crscience.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?
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!
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.

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.

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.
**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.