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 emailed Science Newsblast. Make sure CRS has a reliable email address for you so that you will receive Science Newsblasts and invitations to have Community in the Classroom Scientist Volunteer science lessons in your classroom.

CRS seeks out science resources for your classroom and professional life. We think some of you might like to know about a website we enjoy for keeping up with many of the general science-related goings on in the Bay Area. Go to www.BayAreaScience.org frequently or sign up for their weekly "SciSchmooz" email. (The sign up is located at the top of each of their web pages.)

CRS Online Resource Database

In September we launched our new online database. We’d love to have you try it out the next time you are looking for information on a specific science topic.

Go To:  http://www.crscience.org/database/
User name = the email you have on file with CRS.

Forgot your password? Click the “forgot your password” link to be sent a new temporary password.

We are excited about this new technology, and we’re learning new things every day to make the database better and more user friendly for teachers. When in doubt, contact us at CRS@crscience.org.

NSTA Conference in San Francisco

The National Science Teachers Association is holding their national conference at San Francisco’s Moscone Center March 10-13, 2011. There will be dozens of sessions, key note speakers, in depth workshops and a huge vendor floor full of science materials and trade books. Reduced pricing if you register before February 4. www.nsta.org

Free CRS Memberships Available for Oakland Elementary Teachers

CRS is pleased to announce that recent grants from the SD Bechtel Jr. Foundation and the Clorox Foundation are helping us bring science support and classroom presentations to more teachers in the Oakland public schools. If you teach in Oakland, please let your colleagues know they can sign up -- FREE -- by emailing us at crs@crscience.org with their name, school site, and grade.

Four Ways to Make a Request for Science Support

• call 510-527-5212
• email CRS@crscience.org
• online through the database portal
• Use the online form at http://www.crscience.org/membership/requestform.html

Your requests and the research we do to fullfill them build the knowledge base for everyone. So don’t hesitate to ask.

Go Online for a More Detailed Version of the Science Resource Guide


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• Special & New Science Exhibits around the Bay Area
Program Deadlines

February 2011

2/7/2011  Deadline to apply for March 13-18, 2011 - Intracoastal Waterway Wetlands Expedition
          Gulf of Mexico Foundation
          http://www.gulfmex.org/iwwe.htm

          Gulf of Mexico Foundation
          http://www.gulfmex.org/iwwe.htm

          American Museum of Natural History
          http://learn.amnh.org/

March 2011

3/1/2011  Teacher Institute on Science and Sustainability - Deadline to apply for July Institute
          California Academy of Sciences
          http://www.calacademy.org/teachers/tiss/

3/1/2011  The Edible Schoolyard Summer Academy - Deadline to apply
          Edible Schoolyard
          http://www.edibleschoolyard.org

          The Tech Museum of Innovation
          http://www.thetech.org

3/11/2011  Summer Program Application Deadline
          Forestry Institute for Teachers
          http://www.forestryinstitute.org/

3/15/2011  Priority Deadline for Overnight camp signups 2011-12
          Walker Creek Ranch
          http://www.walkercreekranch.org

3/18/2011  Early Bird Registration Deadline for Sierra Nevada Institutes (July 5-10, 2011)
          California Institute for Biodiversity
          http://www.calalive.org

April 2011

          Occidental Arts and Ecology Center
          http://www.oaec.org/school-garden

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Printed  1/20/2011  Deadlines
2011 Summer Teacher Institute Workshops - Registration Deadline
Exploratorium
http://www.exploratorium.edu

Deadline to apply for June 19-24, 2011 - Intracoastal Waterway Wetlands Expedition
Gulf of Mexico Foundation
http://www.gulfmex.org/iwwe.htm

May 2011

5/1/2011
Summer Fellowship Program - deadline to apply
IISME - Industry Initiatives for Science and Math Education
http://www.iisme.org/

5/2/2011
Lottery Deadline for Summer Fieldtrips
East Bay Regional Parks District
http://www.ebparks.org

5/15/2011
Fall 2011 Program Application Deadline
Slide Ranch
http://www.slideranch.org

5/23/2011
Project Astro Application Deadline
Astronomical Society of the Pacific
http://www.astrosociety.org/education/astro/bayarea/bay.html
Professional Development

February 2011

2/1/2011  Owl Pellets and Beyond - Classroom Kit Training  California Academy of Sciences
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th
Owl Pellets and Beyond - Revised! What do barn owls eat? Learn how to identify the skulls of prey found in owl pellets by using a simple dichotomous key. Students will love this simple discovery lesson that is appropriate for all ages. This activity follows the scientific process by creating a hypothesis, following a procedure, collecting data, and creating a graph to show the class results. A brand new board game that includes fun trivia focuses on the prey of barn owls.

2/5/2011  Cool Tools VII  East Bay Computer Using Educators
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.ebcue.org
12 hands-on-workshops, lunch, and tons of prizes.

2/5/2011  Evolution- Classroom Kit Training  California Academy of Sciences
For Grades:  7th;8th;9th;10th;11th;12th
Evolution is happening all around us! Celebrate the 200th anniversary of Darwin’s birth by using this amazing resource in your classroom. Take part in a workshop that brings the concepts of evolution to life. Engage in hands-on activities that explore reproductive fitness, genetic variation, natural selection, predation, and many more concepts of evolution. Current scientific publications are included to support student learning on each concept. Participants leave with a wealth of activities to enhance student learning about evolution.

2/5/2011  Nature Crafts  Resource Area for Teachers (RAFT)
For Grades:  K;1st;2nd;3rd
http://www.raft.net/workshops/in-house
Learn how to use materials from nature to make fun and creative crafts. You will be amazed at the creative projects you can make using sticks and rocks! Step-by-step instructions with handouts will be provided. Participants will take home both completed craft projects and project ideas that they can use in the classroom.
INSTRUCTOR: Mary Mello has been an Occupational Therapist for 23 years, she has a Masters Degree in Gerontology. She is the mother of a teenager and a kindergartener, former Girl Scout leader, coordinator of the classroom art action projects. Mary has creatively used art in the therapeutic field for a number of years. Currently, she is teaching Kinder Art in an After School Enrichment program in her son's elementary school and will be teaching Arts and Crafts through the city of Danville during this summer.

2/5/2011  Saturday Seminar Series - Professional Learning Community  Bay Area Science Project
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th
http://csmp.ucop.edu/csp/basp/index.php

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Printed:  1/18/2011  Professional Development  1
Saturday Seminar is a free Science & Math professional development opportunity for teachers of grades K - 8 offered in partnership by the Bay Area Math Project (BAMP) and the Bay Area Science Project (BASP) from the Lawrence Hall of Science.

2/5/2011  Spectroscopy - Color in Light  Resource Area for Teachers (RAFT)

For Grades:  4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.raft.net/workshops/in-house

Spectroscopy is the technique of separating light into different colors for detailed study. This is the primary method for studying objects in space. Teachers will watch a DVD "Colors of The Sun", which explains how Solar Astronomers use spectroscopy to unlock the mysteries of the Sun. Then we will build inexpensive spectroscopes and use them in a number of classroom activities. The instructor will demonstrate how to build the Spectroscopy - Color of Light: Light and color fascinates us all. First, use special glasses and spectroscopes to break light into component colors. Then, learn how scientists use this technique to understand the chemistry of stars and more. Emphasis is on hands-on activities for learning about light and color. Classroom kits of spectroscopes 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.

2/5/2011  Science Through Gadgets  Resource Area for Teachers (RAFT)

For Grades:  1st;4th;5th;6th
http://www.raft.net/workshops/in-house

Learn to make a series of fascinating gadgets and toys that children will enjoy using to discover a variety of underlying science principles. Join us for an instructive, fast-paced, and entertaining workshop which combines the "Science Through Gadgets" approach with the interesting materials available at RAFT. Be ready to carry your new gadgets home!

INSTRUCTOR: Glen Kimoto has been a science educator for 38 years, has conducted numerous science workshops in the Bay Area and has presented for the California Science Teachers Association and for the California League of Middle Schools.


For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.exploratorium.edu/ifi/workshops/attend/index.html

Through activities with materials and reflective discussions, this three-day workshop provides an in-depth overview of formative assessment as an integral part of science teaching. Participants experience a variety of ways of assessing students’ science process skills and conceptual development. The workshop provides ideas and tools professional developers can use to help teachers apply elements of formative assessment in the classroom.

2/10/2011  Google Docs & Templates  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 Docs is a free text-editing program that stores your files securely online. This gives you the opportunity to access your documents at anytime and from anywhere with an internet connection. Google Docs also allows you and your students to share documents and work collaboratively to create and edit the docs. Come and find out how Google Docs can help put an end to your carrying stacks of paper writing assignments home to correct.

INSTRUCTOR: Mary Fran Lynch is a third grade teacher at Alta Vista School in the Union School District where she enjoys integrating technology into as many lessons as she can. In addition to the workshops she has offered at RAFT, she has presented Google Docs at SVCUE, the Good Teaching Conference, and for staff development training.
Astronomy Workshop
California Academy of Sciences
For Grades: 3rd;4th;5th;6th;7th;8th
Get your students prepared for the school group show with a suite of simple activities related to the composition and scope of our solar system.

Geology: Classroom Kit Training
California Academy of Sciences
For Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th
When did you last feel an earthquake? Discover a beautiful rock? Contemplate the structure of hills or mountains? In this workshop, you will participate in hands-on activities that illuminate the hidden processes of our planet. Learn about Earth's layers, the rock cycle, minerals, fossils, plate tectonics, and more.

After taking this workshop, you will be eligible to use the Geology Kit in your classroom.

Teacher Conservation Series: Sustainable Eating: From Farm
Monterey Bay Aquarium
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.montereybayaquarium.org/lc/teachers_place/edu_monthly_conservation.aspx
A well-known chef (or two!) will share some restaurant secrets for buying locally and eating sustainably. Join us for a cooking demonstration in Monterey and learn about best choices for you and your students.

Behind the Scenes with Chemistry:
Resource Area for Teachers (RAFT)
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
http://www.raft.net/workshops/in-house
Behind the Scenes with Chemistry: Through hands-on activities, discover some of the chemistry secrets behind common special effects in movies such as Flubber, Ghostbusters, and Harry Potter. 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.
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

Science Round Robin
Resource Area for Teachers (RAFT)
For Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.raft.net/workshops/in-house
Attend 4 mini-workshops in one day, all relating to concepts, misconceptions, and other science skills that you can use in your classroom. Lunch is included.
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. 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. Eric Welker is part of the RAFT Education staff, and is in charge of product displays and demos. Natalie Berkowitz is a former middle school science teacher and RAFT Outreach instructor. She is returning to RAFT in order to share her love of science and nature.

Focus Your Field Trip: Climate Change
California Academy of Sciences
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.calacademy.org
Climate change is the largest and most significant problem that we will face in the foreseeable future. Explore how Climate Change affects our personal choices at home, the state, and the world through the Academy's Altered State exhibit. Learn how to communicate climate change to the next generation and empower them to take action.

Reflections: Having fun with Mirrors
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: 1/18/2011 Professional Development
Study the math, science and perception of mirrors. Covered in the California standards, mirrors are fun on many levels.

INSTRUCTOR: Modesto Tamez is on staff at the Exploratorium's Center for Teaching and Learning.

2/26/2011  Rainforests of the World - Classroom Kit Training  California Academy of Sciences
For Grades:  K;1st;2nd;3rd  
Prepare to lead your students on an exploration of tropical rainforests, one of the most fascinating ecosystems on the planet. This workshop will enhance your understanding of the structure of tropical rainforests, bird adaptations, rainforests soils, plant-animal interactions, and many other topics. Explore the California Academy of Sciences' Rainforests of the World exhibit and discover ways to connect this unique exhibit with your classroom curriculum. After taking this workshop, you will be eligible to use the Rainforests of the World Kit in your classroom.

March 2011

3/1/2011  Dissect a Fish  California Academy of Sciences
For Grades:  3rd;4th;5th  
Skills and strategy workshop

3/1/2011  Teacher Institute on Science and Sustainability - Deadline to a  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).

3/3/2011  Focus Your Field Trip: Water is Life  California Academy of Sciences
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://www.calacademy.org  
Water is the basis of all life on earth and because of this all organisms need water in order to survive. Discover unique animal adaptations of aquatic life on display in our Water Planet exhibit and learn how some of these organisms can survive with very little water.

3/5/2011  The Art of 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.

3/5/2011  Sowing the Seeds of Wonder: Discovering the Garden in Early  Life Lab Science Program
For Grades:  K;1st  
http://www.lifelab.org/for-educators/workshops/gcworkshops/  
Spend a day looking at the garden through the eyes of a pre-school student. Sample many activities that can encourage young children to learn about their world using all their senses. Learn how to implement garden activities in a pre-school setting. We'll also discuss basic gardening skills, appropriate garden design, safe plants for pre-school gardens, and garden art projects and songs. You'll receive a pre-school activity packet with activities and songs for teaching throughout the year. Coffee and bagels at 8:45, workshop from 9:00-3:00. Please bring a sack lunch.

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Printed:  1/18/2011  Professional Development
3/8/2011 Introduction to FOSS Workshop  Oakland Unified School District
For Grades: K;1st;2nd;3rd;4th;5th
http://science.ousd.k12.ca.us/ousdpd.htm
These workshops are the best way to learn about our FOSS kits. Topics include Teacher Guide resources, managing kit materials, structuring instruction, and key student activities. Led by OUSD veteran teachers, each session will be in the presenter’s classroom at various school sites. Teachers will focus on their current kit. Please bring a copy of your current teacher binder and a copy of the student resource book. Limited to 20 teachers per workshop. Teachers will be paid and can attend multiple sessions for each of their three kits.

3/11/2011 Plant It, Grow It, Eat It - Enhancing Nutrition Education - Reg b  Life Lab Science Program
For Grades: 2nd;3rd;4th;5th;6th;7th;8th
http://www.lifelab.org/for-educators/workshops/gcworkshops/
Make the connection from seed to table in this fun and delicious one-day workshop. Explore ways to teach nutrition through gardening, harvesting and meal preparation in Life Lab’s Chez Panisse Garden Kitchen. You’ll learn how effective ways to encourage kids grades 2-8 to eat more fruits and vegetables as part of a healthy lifestyle. Participants will sample the bounty of the farm and harvest to prepare a nutritious lunch. You’ll receive an activity packet with gardening and nutrition lessons, recipes, and garden kitchen resources.

3/12/2011 Organic, Local, and Delicious  California Academy of Sciences
For Grades: 2nd;3rd;4th;5th;6th;7th;8th
Explore what the organic designation means for consumers and the environment, and why locally grown ingredients matter. After a morning of hands-on fun related to food, a delicious sustainable lunch will be provided.

3/15/2011 Introduction to FOSS Workshop  Oakland Unified School District
For Grades: K;1st;2nd;3rd;4th;5th
http://science.ousd.k12.ca.us/ousdpd.htm
These workshops are the best way to learn about our FOSS kits. Topics include Teacher Guide resources, managing kit materials, structuring instruction, and key student activities. Led by OUSD veteran teachers, each session will be in the presenter’s classroom at various school sites. Teachers will focus on their current kit. Please bring a copy of your current teacher binder and a copy of the student resource book. Limited to 20 teachers per workshop. Teachers will be paid and can attend multiple sessions for each of their three kits.

For Grades: K;1st;2nd;3rd;4th;6th;7th;8th
An animal skull can be an amazing resource for exploring natural history and practicing skills such as observation and interpretation. In this workshop, participants will investigate the skulls of seven Northern Californian mammals and learn some of the critical differences that distinguish herbivores, omnivores, and carnivores. Discover the significance of eye placement and learn to infer what animals eat from the shapes of their teeth.

After taking this workshop, you will be eligible to use the Skulls Kit in your classroom.

3/17/2011 Ants in Your Schoolyard - Classroom Kit Training  California Academy of Sciences
For Grades: 2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
These popular workshops qualify educators to borrow Classroom Kits, prepackaged containers filled with lesson plans and materials that can accommodate up to 35 students.

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

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Printed: 1/18/2011  Professional Development
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.

3/19/2011  The Art of 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
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.

3/19/2011  Bioforum:  California Marine Biodiversity: Knowing the Past as  California Academy of Sciences
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.calacademy.org
The California coast includes some of the most diverse marine habitats in the world, but the health of our coastal habitats is at risk. Climate change, pollution, and overfishing threaten to diminish the vitality of the marine ecosystems which play an important role in San Francisco Bay Area life. Join us to learn about the amazing diversity of life just off our coast and how local researchers are working to understand the effects of global climate change on intricate species interactions. What are the challenges we face as ocean conservators and educators, and what actions can we take? Join us to find out what is needed to allow life on our shores to thrive.

This year’s BioForum will have a new format! The morning session will be similar to past years, with three renowned scientists presenting their research to a general audience. In the afternoon, a smaller group of teachers will gather for lunch in the Classroom and will engage in more in-depth and interactive conversations with the speakers. Note that space in the afternoon session is limited, and a separate admission fee is required.

3/24/2011  Waste Worries  California Academy of Sciences
For Grades:  2nd;3rd;4th;5th;6th;7th;8th
http://www.calacademy.org
Discover the consequences of trash production and participate in activities, board games, and scientific experiments about reducing, reusing, recycling, and composting.

For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.montereybayaquarium.org/lc/teachers_place/edu_monthly_conservation.aspx
Respected experts will address current conservation issues and possible solutions. Visit our special exhibition, Hot Pink Flamingos: Stories of Hope in a Changing Sea, before opening hours.

3/26/2011  Earth Art  Resource Area for Teachers (RAFT)
For Grades:  K;1st;2nd
http://www.raft.net/workshops/in-house
Earth Art lessons create environmental motivation through creativity. A simple drawing of a Redwood tree can lead to talk about native species and the carbon dioxide/oxygen cycle we share with trees. An art project about endangered species is an opportunity to teach about deforestation and our choice of farming over rain forest preservation. Participants will have the opportunity to try out four different art projects including basic drawing lessons.

INSTRUCTOR: Kate Rone is the Cultural Kaleidoscope Coordinator at The Palo Alto Art Center and has spent the past eight years developing children's art lessons. She has taught Kinder - Jr. High students, led teacher workshops and has created kid's art projects for festivals.

3/26/2011  LiMPESTs Introduction to Sandy Beach Monitoring - FREE  Farallones Marine Sanctuary Association
For Grades:  6th;7th;8th;9th;10th;11th;12th
http://www.farallones.org
Lecture at the Farallones Marine Sanctuary Association and Monitoring at Crissy Field Beach. The Sandy Beach Monitoring Program is an in-depth science education program for middle and high school students, educators, and volunteer groups. Participants are trained to survey the distribution and abundance of the Pacific mole crab (Emerita analoga) at one of many monitoring sites along the coast of California.

3/26/2011  Nutrition and the Digestive System  Resource Area for Teachers (RAFT)
For Grades:  2nd;3rd;4th;5th;6th;7th
http://www.raft.net/workshops/in-house
Encourage your students to make healthy choices to allow them to live longer, healthier lives. Through hands-on activities, examine how the benefits of prevention (keeping clean, eating right, exercising, and protecting your skin) coupled with scientific discovery can ensure a healthier tomorrow. Activities can be easily replicated in the classroom.

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. Susan Sakaguchi is a former special education teacher. Her experience includes working with K-5th grade students level with a variety of learning disabilities.

3/26/2011  The Art of 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
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.raft.net/workshops/in-house
The first two devices will allow you to measure things so small that they are not usually measurable with ordinarily available instruments. One is a micrometer (also called a micrometer caliper), which will measure lengths as small as the thickness of a single piece of paper or the diameter of a human hair. The other is a microbalance, which will measure masses as small as a grain of salt or sand, a sesame seed, a peppercorn or a Cheerio. An escapement mechanism will also be demonstrated, which illustrates the controlled release of energy in timed steps. This is a process employed in timing devices such as mechanical clocks. If time permits, you will actually build the device, but if time runs short you will still receive a complete kit of materials with instructions.

INSTRUCTOR: Don Rathjen is a physics teacher, activities designer, and writer at the Exploratorium Teacher Institute.

April 2011

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Printed:  1/18/2011  Professional Development
For Grades:  2nd;3rd;4th;5th;6th
http://www.lifelab.org/for-educators/workshops/gcworkshops/
This two-day workshop, located at the amazing Garden Classroom or at your school site, is ideal for those interested in supplementing their existing science program with garden-based learning. Using The Growing Classroom activity guide for grades 2-6, you'll experience hands-on activities, learn basic science concepts and gardening techniques, and develop management strategies for a school gardening program. Find out how to teach the standards while you guide students through the natural cycles of the garden. You'll receive Life Lab's 480 page book, The Growing Classroom as well as many other ideas and resources. Two days 9:00-3:30. One-day Growing Classroom workshops can also be arranged.

For Grades:  2nd;3rd;4th;5th;6th;7th;8th
Learn how to integrate current energy issues into your curriculum, including the what, where, and how of energy, and the challenges it presents.

4/9/2011  Everything You Ever Wanted to Know About Silkworms  Resource Area for Teachers (RAFT)
For Grades:  K;1st;2nd;3rd;4th;5th
http://www.raft.net
Investigate the life cycle of a silkworm. Cross-curricular lessons and projects presented in the workshop will include 3-dimensional life cycles, pop-up books, comparing moths and butterflies using Venn diagrams, scientific drawing, notebooks, and more. Extensions for biological and genetic experimentation will also be presented. A comprehensive bibliography will be provided for a successful insect unit. INSTRUCTOR: Kathy White

4/16/2011  Advanced LiMPETS: Data Analysis Activities for the Classroom  Farallones Marine Sanctuary Association
For Grades:  6th;7th;8th;9th;10th;11th;12th
http://www.farallones.org
LiMPETS teachers, learn about our NEW online tools and data analysis activities. Participants will receive curriculum and practice classroom activities designed to help your students interpret data and look for patterns and changes over time.

4/17/2011  Cal Day Open House  Museum of Paleontology
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.ucmp.berkeley.edu/
Bring the family to see California fossils, tour the collections, hear a paleolecture, search for microfossils, or just buy a UCMP tee shirt! Cal Day is fun for everyone!

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

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Printed: 1/18/2011  Professional Development
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.

TARGET AUDIENCE: Interested teachers and educators of any level are welcome

COST: Thanks to the generosity of the instructor, there is no charge for this workshop. 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.

June 2011

For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.ecoliteracy.org/events/smart-nature-making-learning-connections-between-classroom:
Smart by Nature: Making Learning Connections between the Classroom, Lunchroom, and Garden  --  Food connects many of our most important concerns: Good nutrition is vital to academic achievement. The ways in which we grow, process, market, prepare, and dispose of food are central to questions of sustainability. Improving school food and nutrition education are key to addressing major public health issues. Children learn best through combinations of hands-on and brains-on experiences in diverse settings. This three-day professional development opportunity, directed by leaders in the field, will offer interdisciplinary learning about food, culture, health, and the environment. It is designed to support teams from schools and districts wanting to integrate academic curricula with school gardens, lunchrooms, classroom culinary experiences, and environmentally sustainable practices. Participants will explore the interconnectedness of the ecological principles underlying sustainable food systems, personal and community health, and how food provides a window into understanding cultures. A limited number of full and partial scholarships will be available for teams demonstrating need. If you would like to apply for a scholarship, please be sure to indicate your interest in the “Comments” box on your application.

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 te 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.

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Printed:  1/18/2011  Professional Development
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

**The Amazing Brain in the Classroom**
http://www.ya-nc.org/
The human brain is the only body organ with the capability to study itself. This workshop encourages you to stretch your brain though exploring how the brain works. Though games and activities, Simon illustrates some of the amazing things that you and your students’ brains are dealing with every day. As an accomplished scientist and actor, Simon Hanson’s work focuses on education of scientific concepts through theatre. Having a doctorate in brain research and experience teaching and designing curriculum for both science and theater courses, Simon’s unique approach focuses on diverse approaches to multimodal learning through improvisational theatre and hands on science activities involving theatre techniques. Simon has taught, acted and designed curriculum for the Lawrence Hall of Science’s Science Discovery Theatre, at U.C. Berkeley, the San Francisco Shakespeare Festival, Academy of Art University and The Oakland Zoo. He is currently an instructor at San Francisco City College, where he can be found studying the brains, behavior, and learning patterns of the students in his immensely popular human physiology courses.

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

Your Own Design  
Banana Slug String Band  
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  
Kids for the Bay  
http://www.kidsforthebay.org  
Grade level and whole faculty workshops, One-on-one support, Lesson modeling in teachers' classrooms, Curricula, resources, and equipment. Week-Long Summer Institute for Educators, Lesson planning consultations in the following areas: Implementing a community-based student-led action project, Thematic integration, Developing and implementing critical thinking questioning strategies, Addressing the diverse learning needs of students, Teaching State Standards, Addressing the needs of English language learners. Content Options: Local Watershed Studies, Developing Action Projects, Waste Reduction and Sustainable Practices, Safe Bay Fish Consumption, Studying and Learning in the Outdoors, Point Source & Non-Point Source Pollution Reduction, Environmental Justice, Water Conservation, Scientific Process Skill Development

School Site Specific Trainings  
UC Botanical Garden  
http://botanicalgarden.berkeley.edu/  

Wonders of Water Teacher Orientation  
Bay Model Visitor Center  
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  
Life Lab Science Program  
http://www.lifelab.org

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

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.

**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. Habitat and Adaptations (Grade6-12) Learn about animal adaptations during a scavenger hunt in the zoo!

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Teacher Grants: Specific Deadlines

February 2011

2/1/2011 Grants For Grades 6 - 12
Toshiba America Foundation

$5000 +
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?

2/1/2011 Learning & Leadership Grants
The NEA Foundation

$5000
http://www.neafoundation.org/pages/educators/grant-programs/learning-and-leadership/

Learning & Leadership grants support public school teachers, public education support professionals, and/or faculty and staff in public institutions of higher education for one of the following two 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.

2/1/2011 Student Achievement Grants
The NEA Foundation

$5000
http://www.neafoundation.org/pages/educators/grant-programs/student-achievement-grants/

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

2/1/2011 American Honda Foundation Grant
American Honda Foundation

$20,000-60,000

Supports youth education with a specific focus on the STEM (science, technology, engineering and mathematics) subjects in addition to the environment.

2/11/2011 Ocean Leadership Awards
Quick Science

$500
http://www.usc.edu/org/cosee-west/quiKscience/OceanLeadershipAwards.html

Formal Teaching Excellence Award – for the teachers who are active in developing and implementing innovative and effective approaches to learning and teaching of ocean sciences;

2/17/2011 Intel Schools of Distinction
Intel

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Every year, Intel honors U.S. schools demonstrating excellence in math and science education through innovative teaching and learning environments. To be considered as an Intel School of Distinction, schools must develop an environment and curricula that meet or exceed benchmarks put forth by national mathematics and science content standards. Up to three schools at each level—elementary, middle, and high school—will be named as finalists in the math and science categories. These 18 schools will receive a cash grant of USD 5,000 from the Intel Foundation and a trip to Washington, D.C., for a four-member team from their school and district. Six winners will be selected from the finalists and receive a USD 10,000 cash grant. One of these winners will be selected as the "Star Innovator" and will receive a USD 25,000 grant. All five winning schools and the Star Innovator will also receive products and services from program sponsors.

2/19/2011  Project Orange Thumb
Fiskars
http://www2.fiskars.com/Activities/Project-Orange-Thumb/Grant-Program

Funds projects geared toward community involvement, neighborhood beautification, sustainable agriculture and/or horticultural education. Grant Recipients Receive: *Up to $1,000.00 in Fiskars® Garden Tools *Project Orange ThumbSM t-Shirts for garden members/volunteers. *Up to $1000 for other materials such as plants, seeds, mulch, etc.

March 2011

3/1/2011  2011 Mantis Awards for Community and Youth Gardens
KidsGardening.org
http://www.kidsgardening.org/grants/mantis.asp

$350 value in garden equipment
25 programs will each receive a Mantis Tiller/Cultivator with border/edger and kickstand, and their choice of gas-powered 2-cycle engine or electric motor. Value: $349.00.

3/15/2011  Doug Prouty Classroom Grant Program
East Bay Computer Using Eductores
http://www.ebcue.org

Doug Prouty was an active member of CUE, EBCUE, and a believer that technology could be a source of motivation, excitement, and engagement in the classroom. In that spirit, the Doug Prouty Classroom Grant Program seeks to fund K-12 classroom teachers who want to implement creative, innovative, and student-centered uses of technology in the core curriculum. The grant seeks to fund specific, curriculum-based activities/projects that a classroom teacher wishes to implement in his/her classroom.

3/20/2011  Bright Ideas Grant
PG&E
http://pge.need.org/

$1,000-10,000
grants will be given to schools for outstanding solar energy education projects.

3/31/2011  Captain Planet Foundation Grant
Captain Planet Foundation
http://captainplanetfoundation.org/default.aspx?pid=3&tab=apply

$250-2,500
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)

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Printed: 1/20/2011  Teacher Grants
April 2011

4/15/2011 Grants for Berkeley USD only
In Dulci Jubilo
http://www.indulcijubilo.org/idjgrants.html
$500-10,000
In Dulci Jubilo is a non-profit foundation established in 1978 to enhance the quality of life in the Berkeley community by encouraging, inspiring, instructing and helping young people enrolled in Berkeley's pre-school, primary and secondary schools to develop, during their formative years, values beneficial to the community.

4/30/2011 Environmental Education Grants
The Lawrence Foundation
http://www.thelawrencefoundation.org/grants/
$5000
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.

4/30/2011 Mini Grants
StopWaste.org
http://www.stopwaste.org/home/index.asp?page=97
$500 to $5,000
The Mini-Grants program is designed to provide small amounts of money, within a brief period of time, for a specific purpose. Through a streamlined application process, grants in amounts of $500 to $5,000 can be obtained to start your waste reduction project. The proposed project must be in the area of waste prevention, reuse, recycling or market development.

May 2011

5/1/2011 The Presidential Awards for Excellence in Mathematics and Science Teaching - Secondary
The Presidential Awards for Excellence in Mathematics and Science Teaching
http://www.paemst.org/controllers/home.cfc?method=view
$10,000 and trip to Washington DC
The Presidential Awards for Mathematics and Science Teaching were established in 1983 by an Act of Congress and are administered for the White House by the National Science Foundation. Each year the program recognizes outstanding mathematics and science teachers from across the United States and four U.S. jurisdictions for their contributions in the classroom and to their profession. In addition to honoring individual achievement, the goal of the Awards is to expand and exemplify the definition of excellent science and mathematics teaching. Awardees serve as models for their colleagues, inspirations to their communities, and leaders in the improvement of mathematics and science education. Alternate years for elementary and secondary.

5/1/2011 Teacher Development Grants
McCarthey Dressman Education Foundation
http://www.mccartheydressman.org/teacher.html
$10,000 per year up to 3 years
provide funding to individuals or small teams of teachers in the formation and implementation of groundbreaking K-12 classroom instruction. The grants provide opportunities for teachers to integrate fresh strategies that encourage critical inquiry and to observe their effects on students.

5/1/2011 IISME Summer Fellowships
IISME - Industry Initiatives for Science and Math Education
http://www.iisme.org/
$8,200
places K-16 teachers of all subjects into high-performance work sites for the summer. Teachers complete a project for their sponsors and are paid $8,200 for their work. Teachers also spend time focusing on ways to transfer their Summer Fellowship experience back to their students and colleagues.

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Printed: 1/20/2011 Teacher Grants
American Honda Foundation Grant
American Honda Foundation
$20,000-60,000 http://corporate.honda.com/america/philanthropy.aspx?id=ahf
We support youth education with a specific focus on the STEM (science, technology, engineering and mathematics) subjects in addition to the environment.

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, which 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.

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.

School Garden Grants
Western Growers Foundation
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.

Learning & Leadership Grants
The NEA Foundation
$5000 http://www.neafoundation.org/pages/educators/grant-programs/learning-and-leadership/
Our Learning & Leadership grants support public school teachers, public education support professionals, and/or faculty and staff in public institutions of higher education for one of the following two 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.

Garden Crusader Award
Gardner's Supply Company
$5,000 http://www.gardeners.com/
The Garden Crusader Awards were created by Gardener's Supply in 2001 to honor individuals who are improving the world through gardening. These enthusiastic men and women are planting trees and flowers, growing food, creating new green spaces, and teaching their friends and neighbors about the rewards of gardening.

Braitmayer Foundation Grant
The Braitmayer Foundation
$35,000 http://www.braitmayerfoundation.org/guid.cfm
Grants for: curricular and school reform initiatives; and preparation of and professional development opportunities for teachers, particularly those whom encourage people of high ability and diverse background to enter and remain in K-12 teaching.

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Braitmayer Foundation Grant
The Braitmayer Foundation
$10,000  
http://www.braitmayerfoundation.org/guid.cfm
Grants for: curricular and school reform initiatives; and preparation of and professional development opportunities for teachers, particularly those whom encourage people of high ability and diverse background to enter and remain in K-12 teaching.

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:
- The number of classes and grades involved;
- The impact of the project on the school and/or the impact of the project on the community;
- The school is an underserved/underrepresented school;
- The outreach plan for communicating to others about your project and its goals;
- 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)

Student Achievement Grants
The NEA Foundation
$5000  
http://www.neafoundation.org/pages/educators/grant-programs/student-achievement-grants/
The proposed work should engage students in critical thinking and problem solving that deepen their knowledge of standards-based subject matter. The work should also improve students’ habits of inquiry, self-directed learning, and critical reflection. Proposals for work resulting in low-income and minority student success with honors, advanced placement, or other challenging curricula are particularly encouraged.

Sol Hirsch Education Fund Grants
National Weather Association
$750  
http://www.nwas.org/grants/solhirsch.php
Sol Hirsch Education Fund Grants are 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.
The NWA will award up to seven (7) grants this summer thanks to the many NWA members who have contributed to this fund in honor of Sol Hirsch who retired in 1992 after being the NWA Executive Director for 11 years.

AIAA Foundation Educator Achievement Award
AIAA Foundation
Recognition and trip to Washington DC  
http://www.aiaa.org/content.cfm?pageid=217
Every two years, the AIAA Foundation recognizes up to seven outstanding educators for their accomplishments in exciting K-12 students about math and science and preparing them to use and contribute to tomorrow’s technologies. The nomination period will re-open June 2010

School Garden Grant
California Fertilizer Foundation
$1200  
http://www.calfertilizer.org/grant.htm

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Annually provide 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. For more information, please contact Pam Emery at (916) 574-9744.

6/30/2011 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)

6/30/2011 Education Grants Program
Save the Redwoods League
$500-$5000 http://www.savetheredwoods.org/education/edgrants.shtml
Funds schools, park cooperating associations, and other qualified nonprofits engaged in quality redwood education. The Education Grants Program was established to foster a deeper understanding of redwood forests through personal visits and educational experiences among a broad, diverse audience.
# Teacher Grants: Rolling or Continuous Deadlines

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<th>Teacher wishlist</th>
<th>Adopt-A-Classroom Grants</th>
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<td><a href="http://www.adoptaclassroom.org">http://www.adoptaclassroom.org</a></td>
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<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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<th>Approximate value - $1000</th>
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<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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<table>
<thead>
<tr>
<th>discount bus rental rate</th>
<th>Black Tie Community Bus</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Black Tie Transportation</td>
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<tr>
<td></td>
<td><a href="http://www.blacktietrans.com/fleet.php#bus">http://www.blacktietrans.com/fleet.php#bus</a></td>
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<td></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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<thead>
<tr>
<th>computer hardware</th>
<th>Classroom Computers</th>
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<tbody>
<tr>
<td></td>
<td>Computers for Learning</td>
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<tr>
<td></td>
<td><a href="http://computersforlearning.gov/">http://computersforlearning.gov/</a></td>
</tr>
<tr>
<td></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>Classroom Wishlist</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>DonorsChoose.org</td>
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<tr>
<td></td>
<td><a href="http://www.donorschoose.org/">http://www.donorschoose.org/</a></td>
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<tr>
<td></td>
<td>Teachers describe classroom needs. Contributors decide where they want to put their money.</td>
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</table>

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<tr>
<th>$1000</th>
<th>Small Grants &amp; Product Donations</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Dreyer’s Grand Ice Cream Foundation</td>
</tr>
</tbody>
</table>

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

**discounted bus**  
Parks Express Transportation Services  
**East Bay Regional Parks District**  
[http://www.ebparks.org](http://www.ebparks.org)  
Discount buses ($110) for fieldtrips to East Bay Regional Parks. Schools must have at least 30% of students in Free or Reduced Lunch Program. 40 passengers minimum. They start making assignments in January. Apply ASAP even for programs in fall. Need not have naturalist program pre-arranged. They will help coordinate with naturalist program

**$100 to $500**  
**Funds for Outdoor Field Trips**  
**Field Trip Foundation**  
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**  
Check out this website for all types of grants for classrooms

**$500 in materials**  
**Classroom Wishlist**  
**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**  
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**  
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?

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

Printed: 1/20/2011  
Teacher Grants  
2
Temporary and New Science Exhibits Around the Bay

Bay Area Discovery Museum
Sausalito http://www.badm.org

Building Brainstorm
(January – May 2011) Step inside a design studio where you can explore what it’s like to be an architect, designer, and engineer. Plan a dream home or a dog house, build a skyscraper model, find the best arrangement of an apartment model’s rooms and furniture, construct a structure you can crawl through, and much more in the bilingual (English and Spanish) show. The exhibition introduces children to the design process, including collaborative problem-solving, planning, revisions, and execution.

Curious George: Let’s Get Curious!
(June – September, 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!

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.

Hayward Shoreline Interpretive Center
Hayward http://www.haywardrec.org/hayshore.html

In Their Element
(January 15 - March 20, 2011) East Bay artists Will Tait and Rebecca Fogg's artwork intensifies the patterns of nature we all experience while exploring the boundaries of land and water. Will Tait explores patterns in nature produced by the interactive forces of movement and resistance as seen on the surface of water running over rocks, textures carved in cliffs by the ocean, or the shapes of trees pushing against gravity. Rebecca Fogg uses traditional and digital media to portray the luminous, flowing forms of water. Her work is a visual dance between opposites: reality and abstraction, control and spontaneity, form and dissolution.

Junior Center of Art and Science
Oakland http://www.juniorcenter.org/

African American Inventors
(January 25, 2011 – March 31, 2011) This exhibit will highlight a selection of the many contributions that African-American inventors and scientists have made to American society. The featured inventors are credited with the creation of items we see around us every day such as the traffic light, the elevator, the fountain pen, and much more. Historical and contemporary inventors will be represented.
Creatures of the Abyss
(February 12 through May 8, 2011) Join an expedition into one of the most inaccessible environments on Earth—The Deep Ocean: •Investigate the Dark Ocean: It’s pitch black, under immense pressure and persistently cold. See how scientists explore the deep ocean and find out what strange and amazing features this special area of the ocean hides. •Explore the Creatures: Discover the special adaptations that allow animals to find prey and avoid predators under extreme conditions. Experience elusive creatures up close, see the amazing navigational abilities and predatory techniques of octopi, and meet a life-sized giant squid.

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.

Environmental Education Week
(April 1-16, 2011) National Environmental Education Week (EE Week) is the largest organized environmental education event in the United States. EE Week increases the educational impact of Earth Day by creating a full week of educational preparation, learning, and activities in K-12 classrooms, nature centers, zoos, museums, and aquariums. By participating in EE Week, you encourage your students to make a difference in their schools, homes, and communities!

Rose Studies - An Art Exhibit
(January 5 – April 30, 2011) - Watercolors and Drawings by Maria Cecilia Freeman. This exhibit celebrates both the beauty and the botanical intricacies of roses.

Body Worlds Vital
(October 8, 2010 - September 2, 2011) BODY WORLDS Vital, in its first-ever showing, celebrates the potential of the human body and the body in motion. Featuring authentic human bodies, the exhibition shows the body in health, distress and disease. These detailed anatomical studies, compositions, and representations allow visitors a penetrating gaze at what lies beneath the skin. Physician and anatomist Gunther von Hagens' BODY WORLDS exhibitions are the original, precedent-setting public anatomical exhibitions of real human bodies, and the only anatomical exhibits that use donated bodies, willed by donors, for the express purpose of serving BODY WORLDS’ mission to educate the public about health and anatomy. The bodies are preserved through a remarkable process called Plastination enabling visitors to learn what lies beneath the skin.
Inside your Winter 2011 CRS Science Resource Guide

- Professional Development Calendar
- Registration Deadlines
- Special Science Exhibits
- Grant Deadlines