CRS prepares and sends the Science Resource Guide three times a year to keep you apprised of science education happenings around the Bay. The guide includes information on: Professional Development, Program Deadlines, Grant Deadlines and Temporary Science Exhibits. Next issue—October 2012.

Find this guide online at www.crscience.org/ResourceGuideMay12.pdf

**Monthly e-NewsBlasts**

We send you updates to this Resource Guide every month via our Science e-NewsBlasts. Not receiving the e-NewsBlasts? **Make sure CRS has a reliable email address for you** so that you will receive Science e-NewsBlasts and invitations to have BASIS Scientist Volunteer lessons in your classroom. Send you email to CRS@crscience.org

**Follow, Like and Find CRS!**

Like us on Facebook: [facebook.com/crscience](http://facebook.com/crscience)

Follow us on Twitter: [twitter.com/crscience](http://twitter.com/crscience)

Find us on Flickr: [flickr.com/crscience](http://flickr.com/crscience)

Connect and share with your fellow teachers! Join the CRS Teacher’s Group on Facebook -- it’s a fun and supportive place for you to share ideas, ask questions, and post examples of science in your class. CRS serves nearly 900 East Bay teachers -- imagine the power of learning, creativity, and networking that is possible as more teachers join the conversation about the joys and challenges of teaching elementary school science.

[facebook.com/groups/CRSteachers/](http://facebook.com/groups/CRSteachers/)

**Help us Improve our Services**

How are we doing? What can we do to better help you bring science learning experiences to your students? Please help us to continue to improve our services for you and your fellow teachers by taking a moment to fill out our annual member services survey. This information also helps us find donors to keep our BASIS scientist volunteer visits free! We will award a Flip video camera to one winner drawn at random from all of the surveys completed by June 1.

[http://www.surveymonkey.com/s/Membership20112012](http://www.surveymonkey.com/s/Membership20112012)

**CRS Science Super Star Challenge**

The inaugural year of the Science Super Star Challenge was a great success. The winners received prizes ranging from school assemblies, field trips, museum passes, Flip video cameras, books, and individual prizes for students.

PLACE@ Prescott completed the school challenge and each of the teachers also completed the classroom challenge. Kudos to Soraya Brooks, Janina Brown, Constance Cobb-Zunino, Cicely Day, Linda Fox, Adriana Guadarrama, Lorraine Mann, and Zerita Sharp!

An additional five teachers completed the classroom challenge: Kristine Fowler, Berkeley Arts Magnet; Anna Henry, Crocker Highlands Elementary; Allison McGuirk, Lincoln Elementary; Ashley Rockett, Grass Valley Elementary; Betty Yee, Lincoln Elementary.

Watch for information about how to participate in the CRS Science Super Star Challenge next year.
# Program Deadlines

## May 2012

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
<th>Location</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/15/2012</td>
<td>Field trip Reservations for 2012-2012 begin - first come first served</td>
<td>California Academy of Sciences</td>
<td><a href="http://www.calacademy.org">http://www.calacademy.org</a></td>
</tr>
<tr>
<td>5/15/2012</td>
<td>Fall 2012 Program Application Deadline</td>
<td>Slide Ranch</td>
<td><a href="http://www.slideranch.org">http://www.slideranch.org</a></td>
</tr>
<tr>
<td>5/31/2012</td>
<td>Application Deadline - 2012 Energy and Climate Science Program</td>
<td>Chabot Space and Science Center</td>
<td><a href="http://www.chabotspace.org">http://www.chabotspace.org</a></td>
</tr>
</tbody>
</table>

## June 2012

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
<th>Location</th>
<th>Website</th>
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## July 2012

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
<th>Location</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/1/2012</td>
<td>NSTA New Science Teacher Academy</td>
<td>National Science Teachers Association</td>
<td><a href="http://www.nsta.org/academy/">http://www.nsta.org/academy/</a></td>
</tr>
</tbody>
</table>

## August 2012

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
<th>Location</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/1/2012</td>
<td>Field Trip Reservations BEGIN - Date Approx. Fills Fast</td>
<td>Aquarium of the Bay</td>
<td><a href="http://www.aquariumofthebay.com">http://www.aquariumofthebay.com</a></td>
</tr>
<tr>
<td>8/1/2012</td>
<td>Field Trip Brochures sent out</td>
<td>Crissy Field Center</td>
<td><a href="http://www.parksconservancy.org/our-work/crissy/programs/">http://www.parksconservancy.org/our-work/crissy/programs/</a></td>
</tr>
<tr>
<td>8/1/2012</td>
<td>Fall fieldtrip reservations begin</td>
<td>Hayward Shoreline Interpretive Center</td>
<td><a href="http://www.haywardrec.org/hayshore_schools.html">http://www.haywardrec.org/hayshore_schools.html</a></td>
</tr>
<tr>
<td>8/6/2012</td>
<td>Lottery Deadline for Fall Fieldtrips</td>
<td>East Bay Regional Parks District</td>
<td><a href="http://www.ebparks.org/activities/educators/trips">http://www.ebparks.org/activities/educators/trips</a></td>
</tr>
</tbody>
</table>
8/15/2012  
Program Registration begins for 2011-12  
Lindsay Wildlife Museum  

September 2012

9/1/2012  
Registration for Elementary Field Trips Begins  
Farallones Marine Sanctuary Association  
http://www.farallones.org/education/index.php

9/1/2012  
Begin Scheduling Fieldtrips for Grade 6-12 Lab Visits  
LBNL Center for Science and Engineering Education  
http://www.lbl.gov/Education/CSEE/Programs/k-12.html

9/1/2012  
Begin Scheduling 5th Grade BLAZES field trips  
LBNL Center for Science and Engineering Education  
http://www.lbl.gov/Education/CSEE/Programs/k-12.html

9/1/2012  
Registration for Spring 2012 workshops Begins  
Life Lab Science Program  
http://www.lifelab.org/for-educators/fieldtrips/

9/14/2012  
Registration for Elementary In Class Programs Begins  
Farallones Marine Sanctuary Association  
http://www.farallones.org/education/index.php

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

Printed 5/1/2012  
Deadlines 2
Professional Development

May 2012

5/17/2012  Science Inquiry in the Garden - Reg by 5/3/12  Life Lab Science Program
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.lifelab.org/for-educators/workshops/gcworkshops/
Cost $150  Stipend?
This one-day workshop will offer a process for developing science inquiries in your schoolyard or garden. Designed for K-8 teachers, you will learn strategies to encourage your students to explore the world around them. Based on the current content standards in science, we will use a model that can adapted to any grade level.

5/19/2012  Sowing the Seeds of Wonder: Discovering the Garden in Early K;1st  Life Lab Science Program
For Grades:  K;1st
http://www.lifelab.org/for-educators/workshops/gcworkshops/
Cost $150  Stipend?
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.

5/19/2012  Homer: Computer-Based Energy Projects  Resource Area for Teachers (RAFT)
For Grades:  6th;7th;8th
http://www.raft.net/workshops/in-house
Cost $20 for members; $35 for non-members  Stipend?
Computer modeling need not be confined to the realm of engineers and programmers. HOMER is a modeling program that can be simplified so that middle school and high school students can use it. HOMER models renewable, hybrid or stand-alone systems to allow the user to construct the most economically feasible power system. The website also provides tutorials that could be used in the middle school classroom. For high school students, a project in which they model their own homes, powered by renewable energy resources would send a very important message about the feasibility of employing renewable power in small-scale, domestic situations. INSTRUCTOR: Claudia Medina is the co-founder and owner of TerraVert Inc.

5/19/2012 - 5/20/2012  Maker Faire - The World’s Largest DIY Festival  Maker Faire
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.makerfaire.com/
Cost $20-40  Stipend?
A two-day, family-friendly event to MAKE, create, learn, invent, CRAFT, recycle, think, play and be inspired by celebrating arts, crafts, engineering, food, music, science and technology.
Frontcountry Leadership Training (FLT) is an entry level course covers all the basic skills you will need to successfully take youth on car-camping based overnight trips. Skills covered include: camping safety, day-hiking, tent and stove-set up, clothing requirements, nutrition and team building activities. All learning is experiential. Prior to the weekend training, to get access to our gear libraries, participants also need to complete the Gear Orientation (GO!) training. This can be completed during the pre-trip meeting. Please note that Gear Orientations are offered in both our Oakland and Milpitas offices. Cost: The cost of the course covers all course materials, meals and camping. Participants will have to provide their own transportation to get to the location. The price is $65 for the first participants, and $50 for each additional participant from the same organization (Limit: 2 Discounts per organization). All registrations include a Gear Orientation and pre-trip meeting.

Cost $65 Stipend?

Camping at the Presidio Training

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.

Cost $45 Stipend?

School Garden Training - register by 4/2/12

This five-day intensive residential training offers hands-on skills and theoretical approaches to promote and support the creation of school gardens. The course will focus on integrating the school garden into all curricula and state standards, as well as exploring nutrition, recycling, project-based learning, art, team building, and fundraising. This course is designed for teams of teachers, parents, administrators, and volunteers who have a relationship with a specific school and wish to create or improve a school garden. Involvement in the training entitles participating teams to school garden curricula, an extensive resource binder, two skills workshops, and follow-up site visits by OAEC staff at schools throughout the following year.

Cost $500 Stipend?

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.

Cost $20 Stipend?

The Creating and Sustaining Your School Garden Workshop

Cost FREE Stipend?
The Creating and Sustaining Your School Garden Workshop is a FREE, one-day training for teams working to create or enhance a school garden program. This workshop covers planning and designing a school garden, basic gardening skills, curricular connections and outdoor classroom management.

Modesto – Harvest Hall, 3800 Cornucopia Way, Modesto, 95358

6/15/2012 - 6/17/2012  |  **Eureka! Series-Sierra Nevada Institute-Climate Change**  
For Grades: 6th;7th;8th;9th;10th;11th;12th  
http://www.calalive.org/professionalDevelopment.php  
Cost $200/$375  
June 15-17 & 22-24, 2012 - Early-bird Registration Special $200 (Ends March 30, 2012 at 5:00pm) Regular Registration Fee $375

**California Institute for Biodiversity**

6/18/2012 - 6/20/2012  |  **Summer Math Institute**  
For Grades: 3rd;4th;5th  
http://www.raft.net/workshops/in-house  
Cost $0 for members; $40 for non-members  
The RAFT Math Institute introduces educators to the fundamentals of visual based learning of math concepts through hands-on approaches. Learn a 'hands-on' approach to modeling daily word problems that will help students visualize the math concepts involved.

- One Day Elementary topics Plus  
- Perimeter, Area, Solids, & Symmetry  
- Visual Thinking  
- Word Problems

**Resource Area for Teachers (RAFT)**

6/20/2012 - 6/22/2012  |  **The Systems View of Life**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://www.ecoliteracy.org/events/systems-view-life  
Cost $495  
June 20–22, 2012: Join the Center for Ecoliteracy for a rare opportunity to hear Fritjof Capra, one of the world's leading systems theorists, in a seminar based on The Systems View of Life, the Cambridge University Press textbook he is currently writing with Pier Luigi Luisi, professor of biology at the University of Rome (publication date 2013).

Fritjof will discuss his latest thinking about the dynamics of living systems and the implications for understanding our major global problems and their interconnections in order to address the challenges of building sustainable communities.

Other presenters currently scheduled include Richard Heinberg of the Post Carbon Institute, author of Peak Everything and The End of Growth.

**Center for Ecoliteracy**

6/18/2012 - 6/22/2012  |  **2012-2013 BaySci Science Champions Academy**  
For Grades: K;1st;2nd;3rd;4th;5th;6th  
Cost FREE  
$150/each full day session and $75 for each

**Exploratorium**

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
One 5-Day Summer Workshop - Monday - Friday June 18 - 22, 2012
and…Four Half-Day Follow-up Sessions 9:00am - 12:00pm Oct 13, 2012 / Dec 1, 2012 / Feb 9, 2013 / Apr 13, 2013

Practice science inquiry as it relates to scientific practices in the forthcoming Next Generation Science Standards—asking questions, planning and carrying out investigations, analyzing and interpreting data and arguing from evidence.

Experience hands-on activities and videos of classrooms that illuminate scientific practices in action.

Examine the links between the Common Core Standards for English Language Arts and the Next Generation Science Standards.

Explore strategies for the effective use of science notebooks and classroom discourse.

Network with like-minded BaySci teachers to share strategies and support each other in growing both your classroom practice and your leadership in science.

6/23/2012 The Creating and Sustaining Your School Garden Workshop Life Lab Science Program
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.lifelab.org/for-educators/workshops/collaborative-workshops/csgt/csystg-workshop/
Cost FREE Stipend?
The Creating and Sustaining Your School Garden Workshop is a FREE, one-day training for teams working to create or enhance a school garden program. This workshop covers planning and designing a school garden, basic gardening skills, curricular connections and outdoor classroom management.

Hayward – Ochoa Middle School, 2121 Depot Road, Hayward, CA 94545-2428

6/20/2012 - 6/24/2012 Wilderness Leadership Training Yosemite Bay Area Wilderness Training
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.bawt.org/programs/training/leadership-training/wilderness-leadership-training/
Cost $150-$700 Stipend?
The Wilderness Leadership Training (WLT) is a five day intensive entry-level backpacking course at the heart of BAWT’s programs. It is designed to give you the tools you need to lead youth on multi-day backpacking adventures. After completing the course, you will gain full access to our gear libraries. The Wilderness Leadership Training consists of a pre-trip meeting and five days of backpacking in the Sierra Nevada Mountains. Skills learned include: clothing requirements, nutrition, equipment use, map and compass reading, basic wilderness first aid, leadership styles, group dynamics and more. Role playing exercises are used to give participants a realistic backcountry leadership experience. Food and transportation are provided and no previous experience is necessary. Pre-trip meeting: June 16, 2012 Oakland.

Cost: Fees for the WLT are on a sliding scale. Please choose the appropriate registration fee by selecting your agency’s annual budget (total support and revenue for the past fiscal year.) Please note: training costs for one individual are waived for organizations in exchange for the use of a 15-person passenger van.

$199,999 and under — $150
$200,000-$999,999 — $250
$1,000,000+ — $400
Unaffiliated Individual — $700
If financial constraints prohibit you from signing up for the WLT, please consider applying for the full tuition Amy Chamberlain Scholarship Fund. For more information please contact us at programs@bawt.org.

6/26/2012 - 6/27/2012 RAFT Redwood City 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
Cost Free to members; $40 for non-members Stipend?

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

Printed: 5/1/2012 Professional Development 4
RAFT Innovation Institute is a professional and personal development offering that helps educators create an environment to think freely and encourage imagination and curiosity. The course focuses on Critical Thinking, Communication, Collaboration, and Creativity: the 4C’s that are the backbone for 21st Century learning and innovation skills. The Institute introduces educators to concepts and ideas which reinforce these skills with hands-on activities that is engaging and encourage problem-solving with children.

INSTRUCTORS: Edith Barr
Eric Welker Eric Welker is a former high school science and math teacher with 13 years of classroom experience. As both a master teacher and instructional coach, Eric has supervised and mentored several student teachers. Eric holds a bachelor’s degree in organismal biology with an emphasis on science education and is currently pursuing a master’s degree in teacher leadership. He works full-time as an education specialist and teacher mentor here at RAFT and helps teachers incorporate RAFT activities into their curriculum as well as assist in answering epistemological and pedagogical questions. Eric organizes and conducts demonstrations at RAFT San Jose on Saturdays.

Greg Brown is the current Director of Education at Resource Area For Teaching (RAFT), in San Jose, CA.

ADDITIONAL DATES: Wednesday, June 27, 9:30 AM - 4:00 PM

6/24/2012 - 6/27/2012

The Edible Schoolyard Academy
Edible Schoolyard
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://edibleschoolyard.org/
Cost $500 Stipend?
Creating Garden and Kitchen Classrooms in Every Community
The Chez Panisse Foundation presents The Edible Schoolyard Academy: Creating Garden and Kitchen Classrooms in Every Community. Each two-day academy will provide kitchen, garden, and classroom educators with tools for teaching Edible Education - an integrated approach to hands-on education in the kitchen, classroom, lunchroom and garden.

6/28/2012

July 2 - August 12, 2012 Online Professional Development
American Museum of Natural History
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://learn.amnh.org/
Cost $445 Stipend?
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.

6/24/2012 - 6/28/2012

National Marine Educators Association 2012 conference - Anchorage
National Marine Educators Association
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.marine-ed.org/
Cost $325 Stipend?
North to Alaska’s Seas: A Confluence of Science and Culture • University of Alaska Anchorage Campus. Join fellow NMEA-ers in Anchorage, or “Tikatnu,” the “big ocean river” place of the Dena’ina Athabascan Indians, on Cook Inlet.
Hosted by: Northwest Aquatic and Marine Educators (NAME) and Alaska Center for Ocean Sciences Education Excellence (COSEE AK)
Registration Begins: April 15, 2012
Special Events:
June 24—Opening reception and keynote speech by Fran Ulmer, former Lieutenant Governor of Alaska and current Chair of the Arctic Research Commission
June 25—Reception at the Anchorage Museum of History and Culture
June 26—Banquet, auction, and Stegner Lecture by Ray Troll, conference artist
June 27—Day Field Trips to Seward and Anchorage area, Anchorage Coastal Trail walk and seafood barbecue
Three plenary sessions, six speakers: scientists, artists, and Alaska Native and other indigenous culture bearers
6/24/2012 - 6/28/2012
2012 NSTA/NSELA Summer Leadership Institute
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.nselo.org/
Cost $450 early bird registration Stipend?
Austin, Texas - The National Science Education Leadership Association (NSELA) and the National Science Teachers Association (NSTA) invite you to attend a Summer Leadership Institute. This immersive experience will bring together scores of individual science educators, teams (leaders and teachers), and administrators to explore the K–12 Framework and draft Next Generation Science Standards, determine key features of each, noting comparisons, contrasts and shifts in focus.

6/25/2012 - 6/29/2012
Climate Literacy - reg by March 30
For Grades: 6th
http://www.baesi.org/
Cost FREE Stipend? $500 + an additional $400 for implementing v
In this workshop keyed to the California science standards, you'll learn about
- Natural and human-caused climate change and its environmental, societal and economic impacts
- The greenhouse effect and the carbon cycle
- NASA's contributions to climate change science
- How to adapt materials and approaches you currently use to support climate change education
Newly-developed multimedia educational tools featuring climate-action superhero, The Green Ninja!
Earn a $500 stipend (you must attend all five days) + an additional $400 for implementing workshop. Materials in your classroom and attending two half-day Saturday follow-up sessions. Earn 2 units of Geology 104 for $50/unit (optional). Receive classroom materials and ready-to-use teaching activities.
9:00 am – 3:30 pm each day, San José State University
Instructors: Eugene Cordero (SJSU Meteorology and Climate Science), Grinell Smith (SJSU K-8 Education), Ellen Metzger (SJSU Geology/Science Education) and Cynthia Schmidt (NASA Ames Research Center)
For more information and application materials, call Ellen Metzger at (408)924-5048 or send email to ellen.metzger@sjsu.edu. First preference will be given to applications received by March 30.

6/24/2012 - 6/29/2012
Middle School Project-Based Science - FREE
For Grades: 6th;7th;8th
http://www.mbayaq.org/
Cost FREE Stipend? $50/day
Follow-up Sessions (online for non-locals) - September 29, 2012; January 12, 2013; May 4, 2013
Are you looking for dynamic experiences to invigorate your teaching practice and your students' learning? Are you looking to enhance your curriculum with student-driven projects and inquiry-based activities? Are you interested in equipping your students with 21st Century skills to help them succeed in this ever-changing world? Come have fun with us this summer! You'll stay at the beautiful Stevenson School campus in Pebble Beach. This free institute provides opportunities to:
Collaborate with colleagues and learn about the project-based science process and how it fits into your classroom. Use hand-held technologies such as mobile phones and netbooks to explore local field sites and engage in standards-based classroom activities. Go behind the scenes to learn about our current research projects, new exhibits and the operation of a world-class aquarium. Engage in discussions with scientists and experts in the field. Participate in an online professional community and network with other middle school teachers for support and advice throughout the year!
Stay on campus at the beautiful Stevenson School in Pebble Beach, California.

6/23/2012 - 6/29/2012
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/
Cost $20 Stipend?
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.
2012 California's Water Resources and Climate Change: Foot $75

For Grades: 6th;7th;8th;9th;10th;11th;12th
http://www.calalive.org/professionalDevelopment.php

As water flows out of the Sierra Nevada we come to the foothills of California. Here we will explore the relationship between water flow in the San Joaquin River, Central Valley agriculture practices, and climate change. Participants will divide their time between CSU Fresno and Millerton Lake State Recreation Area while also learning about riverbeds, dissolved oxygen, and local fish. With the help of California State Parks, our educational team will guide you through hands-on activities, multimedia simulations, and a boat tour of Millerton Lake. Through these methods we will give you up-to-date resources that you can take back to your classroom and engage your students in the dynamic nature of California's water resources. This course is focused on 6th through 12th grades and all content is California standards-based.

RWC Summer Math Institute $40

For Grades: 3rd;4th;5th
http://www.raft.net/workshops/in-house

Aligned to the California state standards, this institute covers the math concepts for Upper-Elementary using hands-on manipulatives. Day 1: Whole #'s and Word Problems - Use Base-10 blocks and other math manipulatives to explain the concept of all arithmetic operations. Learn a hands-on approach to modeling daily word problems that will help your students visualize the math concepts involved. Day 2: Fractions, Decimals & Applications - Teach fractions and decimals in a meaningful way by using Base-10 blocks and fraction tiles. Apply these concepts to solve real-life problems with your students. Day 3: Geometry - Use a hands-on approach to learn and teach geometry in a fun way. Combine geometry and RAFT materials to create art with your students.

INSTRUCTOR: Tsing Bardin has been working with elementary school teachers and in university teacher training programs for many years. She has retired from teaching physics at SJSU and at City College of San Francisco.

ADDITIONAL DATES:
Friday, June 29, 9:30 AM - 4:00 PM
Saturday, June 30, 9:30 AM - 4:00 PM

Spirit of the Rockies: Songbirds, Mountain Lions, and More $1995

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

Monitor migratory and resident songbirds to discover the reasons for their declining numbers. Many songbird populations in the Jackson Hole area are declining, and you can help researchers study these birds and their habitats in an effort to stop this decline. You'll search for migratory birds' nests and relocate color-banded birds, providing much-needed information on seasonal survivorship and productivity. Some teams will spend one morning at the bird-banding station and will have the opportunity to observe birds up-close as project staff remove them from mist-nets and band them. Other teams will assist with vegetation measurements near bird nests. In the evenings you'll enjoy dinner followed by a speaker or time to relax and socialize. During your recreational time you may choose to explore Jackson Hole, tour the National Parks, or visit the National Museum of Wildlife Art.

July 2012

RAFT RWC Science Institute Free to members

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

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

INSTRUCTORS: 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 a former high school science and math teacher with 13 years of classroom experience. As both a master teacher and instructional coach, Eric has supervised and mentored several student teachers. Eric holds a bachelor's degree in organismal biology with an emphasis on science education and is currently pursuing a master's degree in teacher leadership. He works full-time as an education specialist and teacher mentor here at RAFT and helps teachers incorporate RAFT activities into their curriculum as well as assist in answering epistemological and pedagogical questions. Eric organizes and conducts demonstrations at RAFT San Jose on Saturdays.

Greg Brown is the current Director of Education at Resource Area For Teaching (RAFT), in San Jose, CA.

6/29/2012 - 7/8/2012

Amazon Rainforest Workshop & Machu Picchu Extension
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.travel2learn.com

Cost $1850 + airfare
Stipend? K-12 teachers and environmental educators can win one of three $1000 scholarships to travel with scientists to one of the most diverse environments in the world. Join group leader Donna Krabill, Norfolk Botanical Garden and scientists Dr. Steve Madigosky, Widener University and Randy Morgan, Entomologist, Cincinnati Zoo on a rainforest discovery June 29- July 8, 2012. Experience a 1/4-mile Rainforest Canopy Walkway, Yagua Culture & Crafts, Village Service Project, ReNuPeru Ethnobotanical Garden, Birdwatching, Night Hikes, and Monkey Island Conservation Project. Open registration through May. Land cost is $1850, plus air. Machu Picchu Extension is optional. Academic Credit is available. Land cost is $850 for scholarship winners. Submit simple scholarship application by March 8. For program and scholarship information, visit http://www.travel2learn.com/amazon.htm (case sensitive). Contact Dr. Frances Gatz, 1-800-669-6806 or frances@ee-link.net

7/9/2012 - 7/10/2012

Solar System Investigations
For Grades: 3rd;4th;5th

Cost $35 Stipend? $150
In order to participate, you must be able to attend both sessions. Do you ever have a hard time explaining why the moon has phases? Can you create a model to show why the earth has seasons? What if you were in charge of traveling to another planet? Join the Academy in this tour of the solar system. Learn kinesthetic models for teaching astronomy, ways to engage your students in using books for research and see our special student planetarium show.

7/10/2012 - 7/11/2012

Ocean Acidification = Trouble for Shelled Species?
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.farallones.org/education/teacher_workshops_climate.php

Cost FREE Stipend? $50 stipend per class
Where: July 10th - Romberg Tiburon Center, Tiburon, CA. July 11th - Tomales Bay area.
Day 1: Learn about ocean acidification and how calcifying organisms respond.
Day 2: Field trip to Hog Island Oyster Company, to learn about how ocean acidification could impact the aquaculture industry and what research is being done with UC Davis Bodega Marine Lab.
Our ocean and estuaries are facing uncertain times. Multiple stresses compounded by climate change are changing our coast and ocean now. This series will connect you with local climate and marine/estuarine science, broaden your understanding of climate change impacts along our coast, and help you bring these issues to life in your classrooms. Classroom kits and activities will be provided. Each workshop will feature local marine/estuarine scientists from San Francisco State University and University of California Davis, and others.

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

Printed: 5/1/2012 Professional Development
Educatin for Sustainabilit

For Grades: 6th

http://www.baesi.org/

Cost: FREE

Stipend? $450 stipend plus $300 more if you impleme

Education for sustainability (EfS) is an international movement that aims to prepare citizens to contribute to the ecological, social, and economic well-being of the community and larger world. In this standards-based workshop, you’ll learn how to help your students explore fundamental questions about well-being, community interdependence, and their connections to the larger world, build interdisciplinary knowledge about human-environmental interactions, and explore decision-making strategies and action projects focused on increasing individual and community well-being. Topics include energy and water resources, ecological footprint analysis, food systems, and climate change. Receive a $450 stipend plus $300 more if you implement workshop materials in your classes and attend 2 Saturday follow-up sessions (1 in fall 2012 and 1 in spring 2013). Qualify for 1 unit of Geology 104 (a $50 unit SJSU fee applies). Receive a year’s subscription to the Creative Change Educational Solutions’ on-line library of lessons, course modules, assessment tools, and curriculum frameworks for teaching sustainability. Creative Change Educational Solutions (www.creativechange.net) is a national leader in sustainability education. 9:00 am – 3:30 pm each day, San José State University

Instructors: Grinell Smith (SJSU K-8 Education), Eugene Cordero (SJSU Meteorology and Climate Science) and Ellen Metzger (SJSU Geology/Bay Area Earth Science Institute)

For more information and application materials, call Ellen Metzger at (408)924-5048 or send email to ellen.metzger@sjsu.edu

Funded by a grant from the Clarence E. Hell

Energy: Past, Present, & Future

For Grades: 5th;6th;7th;8th;9th;10th;11th;12th

http://www.scienceteachersacademies.si.edu/earth/earth.html

Cost: $1990

Stipend?

In Washington DC - As our planet’s population continues to grow and energy needs increase it will become crucial that we teach students how to prepare for energy needs of the future. This *new Energy: Past, Present, & Future Academy looks at this history of energy development and use in the United States, current energy needs, and alternative energy sources for the future. Topics will explore fossil fuels, solar power, wind power, nuclear energy, and alternative energy sources. Each day participants will engage with scientists, curators, engineers, and educators at the Smithsonian Institution museums and other local venues. Participants will engage in hands-on content sessions that take them behind the scenes, and will learn of current research in sustainable energy resources.

2012 Summer Teacher Institute Workshops

For Grades: 6th;7th;8th;9th;10th;11th;12th

http://www.exploratorium.edu

Cost: Stipend available

Stipend? $1000

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.
7/9/2012 - 7/13/2012 Splash Zone Teacher Institute Monterey Bay Aquarium
For Grades: K;1st;2nd
http://www.mbayaq.org
Cost FREE Stipend?
July 9-July 13, 2012 - Follow-up Sessions Saturdays: October 27, 2012; February 9, 2013; April 13, 2013. The Aquarium's Splash Zone Teacher Institute is specifically designed for teachers of young children. Discover new ideas about teaching science and inquiry. Implement new teaching strategies and standards-based activities. Integrate language arts, math, technology, social studies and science. Wonder, discover, share, learn and play! Network with Aquarium educators and colleagues. Receive a stipend upon completion of the program.

7/9/2012 - 7/13/2012 2012 California's Water Resources and Climate Change: San Francisco Bay Area Occidental Arts and Ecology Center
For Grades: 6th;7th;8th;9th;10th;11th;12th
http://www.calalive.org/professionalDevelopment.php
Cost $75 Stipend?
The San Francisco Bay Area is one of California's most important ecological areas. A diverse collection of flora and fauna make this estuary their home, and it is also the drainage point for the main rivers of California into the Pacific. Join us as we look at the unique water resources found in this region as well as how climate change can affect these resources through sea level rise, salinity changes, and extreme weather patterns, like El Niño. With the help of East Bay Regional Park District and California State Parks, participants will explore various habitats at Angel Island State Park, Crab Cove Regional Park, and other East Bay parks. Our educational team will present a wide variety of hands-on activities, outdoor explorations, and field investigations that will give you accurate information that you can then take back to your students. This institute covers California Science Standards for 6th through 12th grades. By participating in this course, you will be able to teach your students about the unique San Francisco Estuary and the impacts it will face due to climate change.

7/9/2012 - 7/13/2012 School Garden Training - register by 4/2/12 Occidental Arts and Ecology Center
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.oaec.org
Cost $400 Stipend?
This five-day intensive residential training offers hands-on skills and theoretical approaches to promote and support the creation of school gardens. The course will focus on integrating the school garden into all curricula and state standards, as well as exploring nutrition, recycling, project-based learning, art, team building, and fundraising. This course is designed for teams of teachers, parents, administrators, and volunteers who have a relationship with a specific school and wish to create or improve a school garden. Involvement in the training entities participating teams to school garden curricula, an extensive resource binder, two skills workshops, and follow-up site visits by OAEC staff at schools throughout the following year.

7/11/2012 - 7/13/2012 Seeds of Science/Roots of Reading Lawrence Hall of Science
For Grades: 2nd;3rd;4th;5th
http://www.scienceandliteracy.org/professionaldevelopment
Cost $625,(includes lunch),$560!per!person!for!groups!of!2!or!more Stipend?
A three day workshop 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 deeper understanding of how to present the Seeds of Science/Roots of Reading units and maximize their effectiveness. Attendees evaluating the program will gain a deeper understanding of the Seeds of Science/Roots of Reading philosophy and the benefits of integrating science and literacy. Topics and activities to be covered:
• Review of the Seeds of Science/Roots of Reading philosophy and of our approach to integrating science and literacy.
• How Seeds of Science/Roots of Reading addresses benchmarks and standards in both science and literacy.
• Firsthand experience with inquiry activities from a Seeds of Science/Roots of Reading unit.
• Review of the student books and the role they serve in the curriculum.
• The benefits of the "Teaching Support and Considerations" features in the teacher guides and how to implement them.
• We will have a sneak peek at units under development for other grade levels.
• Attendees will receive a Seeds of Science/Roots of Reading certificate of completion of the professional development session.

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 5/1/2012 Professional Development 10
San Jose Innovation Institute
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.raft.net/workshops/in-house

Resource Area for Teachers (RAFT)

Cost Free to members Stipend?
San Jose Innovation Institute: RAFT Innovation Institute is a professional and personal development offering that helps educators create an environment to think freely and encourage imagination and curiosity. The course focuses on Critical Thinking, Communication, Collaboration, and Creativity: the 4C's that are the backbone for 21st Century learning and innovation skills. The Institute introduces educators to concepts and ideas which reinforce these skills with hands-on activities that is engaging and encourage problem-solving with children.

INSTRUCTORS: Edith Barr
Eric Welker Eric Welker is a former high school science and math teacher with 13 years of classroom experience. As both a master teacher and instructional coach, Eric has supervised and mentored several student teachers. Eric holds a bachelor’s degree in organismal biology with an emphasis on science education and is currently pursuing a master’s degree in teacher leadership. He works full-time as an education specialist and teacher mentor here at RAFT and helps teachers incorporate RAFT activities into their curriculum as well as assist in answering epistemological and pedagogical questions. Eric organizes and conducts demonstrations at RAFT San Jose on Saturdays.
Greg Brown is the current Director of Education at Resource Area For Teaching (RAFT), in San Jose, CA.
ADDITIONAL DATES: Friday, July 13, 9:30 AM - 4:00 PM

Summer Math Institute: Early Ed level
For Grades: K;1st;2nd
http://www.raft.net/workshops/in-house

Resource Area for Teachers (RAFT)

Cost $0 for members; $40 for non-members Stipend?
Start the new school year with activities and ideas that address Pre-K through 2nd grade math concepts. Games and materials to extend lessons beyond the workbook page and support the transition kindergarten student will be presented. All are appropriate for use in the classroom or as a take-home activity. A resource list, samples, literature links, and websites will be shared.

INSTRUCTORS: Juanita Ryan Juanita Ryan is employed as an Education Associate at the RAFT Redwood City where she is in charge of all things science. She retired from the Berryessa Union School District in San Jose after 36 years of teaching 1st-5th grades at Toyon School. Juanita has worked as a curriculum writer/workshop presenter for NASA, SETI, the American Chemical Society (ACS), and the American Institute of Aeronautics & Astronautics (AIAA). She is the recipient of several awards, including the Berryessa Union School District Teacher of the Year Award, The Tech Museum’s Dreambuilders Award, and the AMGEM Award for Science Teaching Excellence in California. Her personal "claim to fame" was when, at the age of 50, she spent 4 weeks camping on an Antarctic glacier as a research team member of ANSMET (Antarctic Search for Meteorites). Susan Sakaguchi is a former special education teacher. Her experience includes working with K-5th grade students level with a variety of learning disabilities.

Forestry Institute for Teachers - Shasta County
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.forestryinstitute.org/

Cost $20 Stipend?
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.

Spirit of the Rockies: Songbirds, Mountain Lions, and More -
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.earthwatch.org/edopp

Cost $1995 Stipend?

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 5/1/2012 Professional Development
Monitor migratory and resident songbirds to discover the reasons for their declining numbers. Many songbird populations in the Jackson Hole area are declining, and you can help researchers study these birds and their habitats in an effort to stop this decline. You'll search for migratory birds’ nests and relocate color-banded birds, providing much-needed information on seasonal survivorship and productivity. Some teams will spend one morning at the bird-banding station and will have the opportunity to observe birds up-close as project staff remove them from mist-nets and band them. Other teams will assist with vegetation measurements near bird nests. In the evenings you’ll enjoy dinner followed by a speaker or time to relax and socialize. During your recreational time you may choose to explore Jackson Hole, tour the National Parks, or visit the National Museum of Wildlife Art.

7/17/2012  San Jose Science Institute  Resource Area for Teachers (RAFT)
For Grades:  4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.raft.net/workshops/in-house
Cost  FREE to members  Stipend?
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.
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Greg Brown is the current Director of Education at Resource Area For Teaching (RAFT), in San Jose, CA.

7/17/2012 - 7/18/2012  The Sun is Amazing! Workshop - sign up by June 1  Center for Science Education-UC
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Cost  FREE  Stipend?
(+ 1 Saturday Follow-Up in Spring 2013) This Teacher Workshop on the Sun is a great opportunity for a free two-day. It’s held at UC Berkeley’s Space Science Lab in collaboration with the NEED project. It’s a unique chance to learn about the latest NASA research on the Sun and cutting edge solar technology used here on Earth and in space. Takeaway materials are ready-to-use for the classroom and the solar kits are mega cool.
• For Educators Grades K-12, with Elementary, Middle and High School Breakout Sessions
• Free Classroom Solar kit ($300 value)
• Try out creative classroom projects to harness the Sun’s power
• Explore alongside other Bay Area teachers
• Learn about NASA’s exciting solar discoveries
• Behind-the-scenes tour of the Space Sciences Lab
• Field trip to local solar power facility
• Enjoy beautiful location in Berkeley Hills
• Continental breakfast and lunch provided
• Certificate of participation

7/17/2012 - 7/19/2012  California Geology & Geologic Hazard - FREE  Bay Area Earth Science Institute
For Grades:  4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.baesi.org/
Cost  FREE  Stipend? $450
This three-day workshop (w/field-trip day) will examine various aspects of the geology of California. Significant parts of the workshop and field trip will focus on geologic hazards such as earthquakes, tsunamis, coastal erosion, and the impacts of climate change. When? 9:00 am – 3:00 pm on Tuesday 7/17 and Thursday 7/19 - 8:30 am - 4:30 pm on Wednesday 7/18 (field trip day) Where? San José State University.  Earn 1 unit of Geology 104 for $50/unit (optional). Receive classroom materials and ready-to-use teaching activities. Instructors: LeAnne Teruya and Ellen Metzger (SJSU Geology/Bay Area Earth Science Institute), Will Schweller (Chevron Consultant) - Tim McHargue (Consulting Professor at Stanford). For more information and application materials, call Ellen Metzger at (408)924-5048 or send email to ellen.metzger@sjsu.edu

7/15/2012 - 7/19/2012  National Energy Education Conference 2012  National Energy Education Development Project
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://need.org/summertraining
Cost $1100  Stipend?
Arlington, VA - Conference participants receive training and materials to implement innovative hands-on energy units for their classrooms, multi-disciplinary teams, and after-school programs. They also receive the materials, training, and support to conduct in-services in their areas to introduce the NEED program to others. NEED leaders at the conferences help participants develop specialized units that meet state standards and can be utilized with students of all learning styles.

7/15/2012 - 7/21/2012  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/
Cost $20  Stipend?
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.

7/23/2012 - 7/24/2012  Ocean Sciences Sequence for Grades 3–5  Lawrence Hall of Science
For Grades:  3rd;4th;5th
http://lhsgems.org/gemsworkshops.html
Cost $320 (including lunch) or $280/person for 2 or 3  Stipend?
This workshop will focus on the Ocean Sciences Sequence for Grades 3–5, with a brief overview and review of the content in the other units in the series. (Note that the workshop is held the same week as the three-day GEMS Associate session, special pricing is offered to attendees of both, which provides for a 20% discount.)
Topics and activities covered at the workshop include:
An in-depth review of the sequences concept, and how the the Ocean Sciences Sequence for Grades 3–5 and all of the units provide both in-depth coverage of the subject matter, and great flexibility of implementation. How sequences are developed to address standards, and how the Ocean Sciences Sequence for Grades 3–5 specifically addresses benchmarks, National Science Educational standards, and the Ocean Literacy Essential Principles.
Firsthand experiences with inquiry activities from the Ocean Sciences Sequence for Grades 3–5.
How you can teach your students the language of “scientific argumentation” by stating claims and evidence throughout the investigation process.
Review of the strong teacher support features of the curriculum and how to implement them.
A discussion of the effectiveness studies done with the Ocean Sciences Sequence for Grades 3–5 and how those validate the curriculum and inform your approach to teaching the units.

7/23/2012 - 7/25/2012  Project EAT Summer Institute 2012 for K-6 Teachers/Administrators  Alameda County Office of Education
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.acoe.org/acoe/Home/ProfessionalDevelopment
Cost $150 - FREE for OUSD  Stipend?

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 5/1/2012  Professional Development
Three days of exciting sessions to learn how to design and promote standards aligned nutrition education within your existing curricula. Learn how to teach students in the garden and outdoor areas. Receive free lessons, books, posters, online resources and other materials. Learn how to promote nutrition education and environmental literacy. You will also receive ideas for incorporating Golden State Energizers in the classroom as well as visit school sites with school gardens and active nutrition education programs.

OUSD Teachers: Thanks to a State Farm Grant, in affiliation with EEI (Education and the Environment Initiative) OUSD Teachers attend for free. Please do not pay via PayPal or any method.

Presenter(s): Catherine Cook and Marie Brown
Location: ACOE, 313 W. Winton Ave., Hayward, CA Rm 142
Cost: $150 for 3 day attendance includes all materials, lunch and snacks each day.
For more information, contact: Catherine Cook, (510) 670-7713

7/23/2012 - 7/25/2012
Sustainability Education Summer Institute
Center for Ecoliteracy
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.ecoliteracy.org/events/sustainability-education-summer-institute
Cost $350
Stipend? $2000

The Center for Ecoliteracy is cosponsor for the fourth annual Sustainability Education Summer Institute, to be held July 23–25 on beautiful Bainbridge Island in Washington. The conference, located at IslandWood, a sustainably built outdoor education center, offers an inspiring array of workshops and presentations for K–12 educators wanting to cultivate their knowledge of sustainability education and apply it to their schools and programs. There will be plenty of time as well to explore the breathtaking 255-acre campus.
CEL’s Lisa Bennett and Carolie Sly will offer presentations, including the opening keynote address, based on the Center’s forthcoming book Ecoliterate: Cultivating Emotional, Social, and Ecological Intelligence, written by Daniel Goleman, Lisa Bennett, and Zenobia Barlow, with professional development sections by Carolie Sly (Jossey-Bass, 2012).

7/16/2012 - 7/27/2012
Teacher Institute on Science and Sustainability
California Academy of Sciences
For Grades: 3rd;4th;5th
Cost FREE
Stipend? $2000

TASS 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).

7/23/2012 - 7/27/2012
Summer Institute for Middle School Teachers
Stanford University
For Grades: 6th;7th;8th
http://www.stanford.edu/group/cpn/education/simst.html
Cost FREE
Stipend? $650 stipend & PD units ($550 after completion of SIMST, $100 after implementing a nano lesson in the classroom)

The Center for Probing the Nanoscale (CPN) offers the one-week Summer Institute for Middle School Teachers (SIMST) annually. At the Institute teachers learn about the physical concepts underlying concept of nanotechnology and nanoscience in simple terms. Daily sessions focus on content lectures and inquiry-based modules that explicitly address California's 5-8th grade physical science content standards. Teachers will also receive a hands-on activity classroom kit with many fun activities that bring nanoscience into the classroom.

learn about nanoscience and nanotechnology in simple terms
develop and receive hands-on activities targeting CA 5-8th grade science content standards
interact with scientists at Stanford University
gain hands-on experience in research labs
receive a $650 stipend and professional development units ($550 after completion of SIMST, $100 after implementing a nano lesson in the classroom)

7/25/2012 - 7/27/2012
GEMS Associate training
Lawrence Hall of Science
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
http://lhsgems.org/gemsworkshops.html
Cost $475 (including lunch), $425/person for groups of 5 or more.
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.
Earth's History & Global Change  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.scienceteachersacademies.si.edu/earth/earth.html
Cost  $1990
Stipend? 
In Washington DC - Global climate change will impact the lives of all inhabitants of our planet and is becoming a key issue taught in our classrooms. This new Earth’s History and Global Change Academy looks at change from the perspective of the history of the earth from its formation, through the origins of life and its impacts. Topics will include planetary processes, volcanism and plate tectonics, the changing oceans, and atmosphere. Each day participants will engage earth scientists at the Smithsonian museums and elsewhere in hands-on content sessions that take them behind the scenes, to look at how current research provides evidence of our planet’s past environments.

Coastal Systems Teacher Institute  
For Grades: 3rd;4th;5th
http://www.mbayaq.org
Cost  FREE
Stipend? 
The aquarium's Coastal Systems Teacher Institute is specifically designed for teachers of 3rd-5th grade students. The program provides opportunities for teachers to: Engage in learning about science, Use coastal ecosystems to teach state content standards, Explore, question, investigate, collaborate, create, Integrate content and process skills, Facilitate language acquisition, Eligibility: 3rd through 5th grade classroom teachers. Requirements: Attend all sessions, Use the curriculum materials with your students, Conduct a coastal system or classroom project with your students and share the project at the final follow-up session, Conduct an in-service for your colleagues or a family discovery event at your school site or district.

Bay Area Project Astro Workshops - reg by May 27  
For Grades: 3rd;4th;5th;6th;7th;8th
http://www.astrosociety.org/education/astro/bayarea/teacher.html
Cost  $40
Stipend? 
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.

August 2012

Inquiry  
For Grades: K;1st;2nd
Cost  $35
Stipend? $150
NEW! Join us in exploring the science inquiry process by investigating the characteristics and behavior of live plants and animals. Leave with confidence and excitement to bring these simple and effective scientific practices into your classroom. In order to participate, you must be able to attend both sessions.

Techbridge Summer Training Institute 2012 - reg by May 1  
For Grades: 5th;6th;7th;8th;9th;10th;11th;12th
http://www.techbridgegirls.org/Educators/SummerInstitute.aspx
Cost  $750 or $1000 for 2 teachers
Stipend?
Are you interested in developing a program to encourage girls in technology, engineering and science? Would you like to gain girl-tested, hands-on curriculum and learn strategies for success? This 3-day workshop will teach participants strategies for encouraging girls in technology, science and engineering.

Techbridge has served over 2,000 girls through after-school and summer programs over the past 8 years, working closely with teachers, parents, role models and corporate partners. Founded by Chabot Space & Science Center, Techbridge offer hands-on projects developed for girls and career exploration activities such as field trips to companies and role model visits. The Summer Training Institute shares our best practices and curriculum while providing the tools and framework for achieving success to engage girls in technology and science.

7/30/2012 - 8/3/2012  
BioBuilding 2012 Teacher Workshop @ Berkeley  
By: BioBuilder  
For Grades: 8th;9th;10th;11th;12th  
Cost  FREE  
Stipend?  
March 16, 2012. This week long, professional development class will prepare educators to bring biological engineering and synthetic biology into their classrooms and laboratories. The workshop will include  
* lectures that connect the engineering/science/math and technology aspects of these fields  
* labs and classroom activities taught from the online BioBuilder.org resource, lunchtime discussions with members of MIT’s synthetic biology community activities that address human practice questions such as the safety, security, economics and wisdom of engineering novel biological systems  
Attendees will receive lunch each day and 67.5 PDUs. Attendees must commit to carry out a BioBuilder activity in the 2012-2013 academic year, and provide feedback on the effort.

7/30/2012 - 8/3/2012  
Think Evolution IV: A summer institute for science educators  
By: Museum of Paleontology  
For Grades: 6th;7th;8th;9th;10th;11th;12th  
http://www.ucmp.berkeley.edu/about/institute12.php  
Cost  $75  
Stipend?  
Put on your evolution eyeglasses and your nature of science thinking cap and join us for (yet another) fun-filled five days of evolutionary explorations with biologists and educators at the University of California. The Think Evolution Summer Institute, returning for its fourth year, will combine lectures by prominent evolutionary biologists with sessions focused on hands-on activities for the middle school, high school, and community college classroom.

7/25/2012 - 8/4/2012  
Climate Change and Caterpillars in Ecuador - Reg by 2/13/12  
By: Earth Watch Institute  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://www.earthwatch.org/edopp  
Cost  $1995  
Stipend?  
Explore the fascinating world of caterpillars to see how they protect themselves and respond to changes in their habitats. You'll work with Principal Investigator Dr. Lee Dyer and a team of researchers to find and collect caterpillars and their host plants. In the open-air laboratory, you'll help raise caterpillars at all stages of their life cycles and record their relationships with plants and parasites. When you're not unrolling leaves in search of telltale caterpillar signs or labeling specimens in the lab, you can enjoy striking views of the cloud-covered Andes, scan the trees in the neighboring Antisana Reserve for some of Ecuador's over 1,550 bird species, or chat with other researchers staying at the station.

8/4/2012 - 8/5/2012  
Camping at the Presidio Training  
By: Golden Gate N.P. Conservancy  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
Cost  $45  
Stipend?  
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.
8/6/2012  
*Geology: Classroom Kit Training*  
*California Academy of Sciences*  
For Grades: 2nd;3rd;4th;5th  
**Cost** $15  
**Stipend?**  
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. While appropriate for grades 2 - 5, this kit emphasizes 4th grade science content standards. After taking this workshop, you will be eligible to use the Geology Kit in your classroom.

8/7/2012  
*Coral - Classroom Kit Trainings*  
*California Academy of Sciences*  
For Grades: 3rd;4th;5th;6th;7th  
**Cost** $15  
**Stipend?**  
Dive into the world of the coral reef ecosystem through a variety of engaging, hands-on activities and games. Learn about the anatomy of a coral polyp by making an edible model. Discover the importance of coral reefs and the critical environmental conditions necessary for coral survival through interactive games. Take all these exciting activities and materials back to the classroom to prepare your students for a visit to the California Academy of Sciences' Philippine coral reef exhibit.

8/4/2012 - 8/8/2012  
*124th Annual Meeting: "Communicating Science"*  
*Astronomical Society of the Pacific*  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://www.astrosociety.org/events/meeting.html  
**Cost** $325  
**Stipend?**  
Plenary speakers include: Michael Mann, of Pennsylvania State University, a pioneer in the study of global climate change, who will address "Science Denial in the U.S." and his experiences on the front lines of the public climate debate.

Sheila Tobias, nationally renowned author, who will discuss the state of K-12 teaching in the U.S. and the challenges of being a science teacher in our times.

Charles Petit, prize-winning science journalist and former president of the National Association of Science Writers, who will report on the state of science journalism in the era of Twitter.

Philip Christiansen, Professor at Arizona State University, an investigator for several Mars missions, and a leading expert on Mars, who will report the latest news about the red planet just as the Curiosity Rover is landing.

A Panel on Diversity and Evaluation and how to address cultural differences in designing programs with impact.

A Panel on Doomsday 2012 (and Cosmophobia -- the fear of astronomical events -- in general): how to address bogus science and assure the frightened public, featuring David Morrison of NASA's "Ask an Astrobiologist" website.

8/8/2012  
*Rainforests of the World - Classroom Kit Training*  
*California Academy of Sciences*  
For Grades: K;1st;2nd;3rd  
**Cost** $15  
**Stipend?**  
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, rainforest 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.

8/9/2012  
*Geology: Classroom Kit Training*  
*California Academy of Sciences*  
For Grades: 6th;7th;8th;9th;10th;11th;12th  
**Cost** $15  
**Stipend?**

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Printed: 5/1/2012  
Professional Development  
17
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.

6/18/2012 - 8/10/2012

IISME Summer Fellowships

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

http://www.iisme.org/AboutSummerFellowships.cfm

Cost: FREE

Stipend? $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.

8/8/2012 - 8/10/2012

SJ Summer Math Institute: Middle School

For Grades: 6th;7th;8th;9th;10th;11th;12th

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

Cost: FREE to members

Stipend?

Aligned to the California state standards, this institute covers the math concepts for Middle School students using hands-on manipulatives. Day 1: Developing Number Sense with a Hands-on Approach - Model the number relationships of whole numbers, fractions, and percentages with Base-10 manipulatives. Make sense of the way numbers are used in the everyday world. Do hands-on activities including estimating in actual measurements, mental math, and finding short-cuts using number relationships.

Day 2: Developing Number Sense with a Hands-on Approach - Model the number relationships of whole numbers, fractions, and percentages with Base-10 manipulatives. Make sense of the way numbers are used in the everyday world. Do hands-on activities including estimating in actual measurements, mental math, and finding short-cuts using number relationships.

Day 3: Geometric Concepts - Teach geometric concepts by making artistic designs with angles and circles. Study surface area and volume by building a variety of solids. Help students make sense of patterns and algebraic functions by using hands-on manipulatives.

Day 4: Algebraic Functions and Formulas - Learn to derive algebraic formulas in a concrete way that will relate to your students and the real world. Explore hands-on ways to teach functions and patterns of change.

INSTRUCTOR: Tsing Bardin has been working with elementary school teachers and in university teacher training programs for many years. She has retired from teaching physics at SJSU and at City College of San Francisco.

ADDITIONAL DATES:

Thursday, August 9, 9:30 AM - 4:00 PM
Friday, August 10, 9:30 AM - 4:00 PM

8/7/2012 - 8/17/2012

Climate Change and Caterpillars in Arizona - Reg by 2/13/12

Earth Watch Institute

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

http://www.earthwatch.org/edopp

Cost: $1995

Stipend?

Explore the fascinating world of caterpillars to see how they protect themselves and respond to changes in their habitats. Come search for and collect caterpillars and their host plants in Arizona’s beautiful riparian forest. You'll help scientists at the Southwest Research Station determine what types of caterpillars you've found, whether they've been attacked by parasites, and which plants they seem to favor. Principal Investigator Dr. Lee Dyer and his staff will teach you how to recognize all these things and join you in the forest, the lab, and around the dinner table. In your recreational time, you can explore the trails around the station and take in the beautiful world where forest meets desert.

6/18/2012 - 8/17/2012

Teachers at Sea/On-board Education Officer - Deadline 1/15/12

Joides Resolution

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

http://joidesresolution.org/node/453

Cost: FREE - Grant

Stipend?

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Printed: 5/1/2012 Professional Development 18
JOIDES Resolution Education Officers have the opportunity to learn shipboard science alongside the expedition's science party and translate their learning experiences for students, families and the general public through creation of blogs, videos, social networking sites, live video conferencing from the ship and classroom activities. All expenses for education officers for travel to and from the ports of call are paid by Deep Earth Academy. In addition, a stipend will be paid. Education officers are selected through a competitive application and interview process.

We invite informal educators from the United States to apply to sail as Education Officer on IODP Expedition 342: Paleogene Newfoundland Sediment Drifts. This expedition will focus on extreme climate events and will be drilling near to the site of the sinking of the Titanic on the 100th anniversary of that event. It is scheduled to leave St. George, Burmuda on 18 June, 2012 and return to port in St. John, Newfoundland on 17 August, 2012. A preference will be given to applicants with backgrounds in working with museum and family audiences, as well as the general public. Background information on this expedition can be found here.

### 2012 Energy and Climate Science Program
8/13/2012 - 8/17/2012

**Chabot Space and Science Center**

For Grades: 4th;5th  
(http://www.chabotspace.org/feast.htm)

**Cost** FREE  
**Stipend?** $1000 stipend ($500 each summer)

An exciting 10-day (5 days, 2 summers) professional development experience! This opportunity is for 4th and 5th grade teachers interested in becoming part of an educators’ community that recognizes the importance and timeliness of climate science as a core curriculum topic. As California moves forward with the development of the new core science standards, climate science study and related activities promote the skills and critical thinking strategies necessary for success in STEM. Qualified candidates have taught science for at least 3 years and teams will preferably be comprised of 4th and 5th grade teachers, though we will consider multiple teachers from the same grade level.

### Cultivating Emotional, Social, and Ecological Intelligence
8/15/2012 - 8/17/2012

**Center for Ecoliteracy**

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
(http://www.ecoliteracy.org/events/cultivating-emotional-social-and-ecological-intelligence)

**Cost** $495  
**Stipend?**

August 15–17, 2012: This seminar introduces the "secret sauce" for teaching and learning about some of the most important ecological issues of the day. It presents a new integration of emotional, social, and ecological intelligence developed by the Center for Ecoliteracy in collaboration with Daniel Goleman, author of the bestselling books Emotional Intelligence and Social Intelligence and the more recent Ecological Intelligence. The seminar is based on the Center's forthcoming book, Ecoliterate: How Educators Are Cultivating Emotional, Social, and Ecological Intelligence, coauthored by Daniel Goleman, Center communications director Lisa Bennett, and executive director Zenobia Barlow, with professional development sections contributed by director of education programs Carolie Sly (Jossey-Bass, September 2012).

### Growing Classroom: Workshop - reg by 8/2/12
8/18/2012 - 8/19/2012

**Life Lab Science Program**

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

**Cost** $300  
**Stipend?**

Garden-based workshop in the Life Lab Garden Classroom includes learning to guide children in a garden setting, how to apply standards for today’s accountability requirements and basic gardening and composting instruction. Workshop participants receive a copy of The Growing Classroom, handouts, and continental breakfast.

### September 2012

#### Water Planet
9/5/2012

**California Academy of Sciences**

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

**Cost** $15  
**Stipend?**

Discover interesting adaptations for locomotion, feeding, and the reproductive strategies of aquatic life. Leave with a comprehensive educator exhibit guide to the Water Planet exhibit in the Steinhart Aquarium to help your field trip memories last a lifetime.
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
Cost $45
Stipend?
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.

Rainforests of the World - Classroom Kit Training
California Academy of Sciences
For Grades: 4th;5th;6th;7th;8th
Cost $15
Stipend?
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.

Earthquake - Life on a Dynamic Planet
California Academy of Sciences
For Grades: 6th;7th;8th;9th;10th;11th;12th
Cost $15
Stipend?
NEW! Explore the Academy's new exhibit "Earthquake: Life on a Dynamic Planet" and learn how geological processes have shaped life over time. Experience the historic earthquake events of the Bay Area and leave with an educator exhibit guide that will explore these topics and help you prepare your students for future quakes at home and at school.

Coral - Classroom Kit Trainings
California Academy of Sciences
For Grades: 3rd;4th;5th;6th;7th
Cost $15
Stipend?
Dive into the world of the coral reef ecosystem through a variety of engaging, hands-on activities and games. Learn about the anatomy of a coral polyp by making an edible model. Discover the importance of coral reefs and the critical environmental conditions necessary for coral survival through interactive games. Take all these exciting activities and materials back to the classroom to prepare your students for a visit to the California Academy of Sciences' Philippine coral reef exhibit.

Wilderness Leadership Training
Tahoe National Forest
Bay Area Wilderness Training
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.bawt.org/programs/training/leadership-training/wilderness-leadership-training/
Cost $150-$700
Stipend?
The Wilderness Leadership Training (WLT) is a five day intensive entry-level backpacking course at the heart of BAWT’s programs. It is designed to give you the tools you need to lead youth on multi-day backpacking adventures. After completing the course, you will gain full access to our gear libraries. The Wilderness Leadership Training consists of a pre-trip meeting and five days of backpacking in the Sierra Nevada Mountains. Skills learned include: clothing requirements, nutrition, equipment use, map and compass reading, basic wilderness first aid, leadership styles, group dynamics and more. Role playing exercises are used to give participants a realistic backcountry leadership experience. Food and transportation are provided and no previous experience is necessary. Pre-trip meeting: September 8, 2012 Oakland
Cost: Fees for the WLT are on a sliding scale. Please choose the appropriate registration fee by selecting your agency’s annual budget (total support and revenue for the past fiscal year.) Please note: training costs for one individual are waived for organizations in exchange for the use of a 15-person passenger van.
$199,999 and under — $150
$200,000-$999,999 — $250
$1,000,000+ — $400
Unaffiliated Individual — $700
If financial constraints prohibit you from signing up for the WLT, please consider applying for the full tuition Amy Chamberlain Scholarship Fund. For more information please contact us at programs@bawt.org.

9/19/2012  Our California Coast  California Academy of Sciences
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Cost  $15  Stipend?
Enjoy the unique opportunity to explore beneath the waves of our own California Coast. Engage in activities that explore this biodiversity hot spot and leave with an educator exhibit guide that illustrates this natural wonder.

9/22/2012  Evolution- Classroom Kit Training  California Academy of Sciences
For Grades:  7th;8th;9th;10th;11th;12th
Cost  $15  Stipend?
Evolution is happening all around us! 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.

9/26/2012  Astronomy Workshop Series  California Academy of Sciences
For Grades:  3rd;4th;5th;6th;7th;8th
http://www.calacademy.org
Cost  $35  Stipend?
Wednesday September 26
Wednesday October 3, and
Wednesday October 10.
In order to participate, you must be able to attend all three sessions. Investigate our Solar System in this 3-part workshop. Participants will gain an introduction into astronomy and learn to use inquiry based methods and science notebooks to teach their students about the motions in outer space. By building planets scaled to size and plotting the distance of these objects from our Sun, you’ll better understand the size and scale of the solar system. We’ll then shift from hands-on models to kinesthetic ones. Orbit around a light source to better grasp the movement of constellations, the reason for the seasons, the phases of the Moon, the path of comets, and how rotations and revolutions relate to days and years, respectively.

9/29/2012  Rainforests of the World - Classroom Kit Training  California Academy of Sciences
For Grades:  K;1st;2nd;3rd
Cost  $15  Stipend?

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed:  5/1/2012  Professional Development
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.

9/29/2012 - 9/30/2012
Frontcountry Leadership Training (FLT)
For Grades: K; 1st; 2nd; 3rd; 4th; 5th; 6th; 7th; 8th; 9th; 10th; 11th; 12th
http://www.bawt.org/programs/training/leadership-training/frontcountry-leadership-training/
Cost $65
Stipend?
Frontcountry Leadership Training (FLT) is an entry level course covers all the basic skills you will need to successfully take youth on car-camping based overnight trips. Skills covered include: camping safety, day-hiking, tent and stove-set up, clothing requirements, nutrition and team building activities. All learning is experiential. Prior to the weekend training, to get access to our gear libraries, participants also need to complete the Gear Orientation (GO!) training. This can be completed during the pre-trip meeting. Please note that Gear Orientations are offered in both our Oakland and Milpitas offices.
Cost: The cost of the course covers all course materials, meals and camping. Participants will have to provide their own transportation to get to the location. The price is $65 for the first participants, and $50 for each additional participant from the same organization (Limit: 2 Discounts per organization). All registrations include a Gear Orientation and pre-trip meeting.
Ongoing Professional Development

Seminars on Science - Online Courses for Educators
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.

School of Professional Studies
http://ce.fresno.edu/cpd/courses/
Courses are delivered through a combination of modalities to better serve the school community's needs: printed materials and texts, audiotapes, videotapes, CD-ROM, and online distance learning. These are not on-campus courses. They may be taken any place and any time. Over 20 course offerings including: "Science for the Elementary School," "Physical Science Activities for the Primary Grades," "Astronomy: For All Ages."

Online Courses for Educators in the Sciences
www.scienceteacher.org
Montana State University's National Teachers Enhancement Network (NTEN) has over 10 years experience delivering high quality Internet learning opportunities directly to K-12 science teachers. Educators can access electronic teacher resources, discuss issues with other educators online, and participate in high-quality graduate courses all from convenient home or work locations via the Internet. An average of 15 online graduate level science and science education courses are available each semester. NTEN courses are designed to help teachers improve and enhance their understanding of science content. Courses can be taken for professional development or as part of a graduate degree program. MSU's Master of Science in Science Education (MSSE) degree is an intercollege, interdisciplinary graduate program that integrates learning and the discovery of knowledge in a collaborative academic environment. Over 80% of MSSE degree course work is available online. For more information on courses go to: www.scienceteacher.org or for the graduate program go to: www.montana.edu/msse/

PBS TeacherLine
http://www.pbs.org/teacherline/
PBS offers on-line professional development opportunities on a wide range of content areas including science. Additional graduate credit is available.

American Museum of Natural History

Fresno Pacific School of Professional Studies

National Teacher Enhancement Network

PBS
Professional Development: Customized for Your School

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.

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.

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

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

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.

Environmental Education Services
http://www.kidsforthebay.org

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


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


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.

**Customized Workshop**  
Life Lab Science Program

[http://www.lifelab.org](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**  
Marine Science Institute

[http://www.sfbaymsi.org](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.

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

[http://www.oaklandzoo.org](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!

**Staff Development Workshops**  
Randall Museum


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.

**RAFT Outreach Workshops**  
Resource Area for Teachers (RAFT)

[http://www.raft.net](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

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

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Professional Development
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

Group Workshops
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.

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

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.

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.

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

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Printed: 1/16/2012 Professional Development 3
Teacher Grants: Specific Deadlines

May 2012

5/15/2012

The Richard C. Bartlett Environmental Education Award - verify date
National Environmental Education Foundation
http://www.neefusa.org/bartlettaward.htm
The Richard C. Bartlett Environmental Education Award is awarded annually to an outstanding educator who has successfully integrated environmental education into his or her daily education programs. The award is given to an educator who can serve as an inspiration and model for others.

$5000

5/15/2012

GreenSchools! Action Project Grants
Project Learning Tree
http://www.plt.org/applyforagrant
• Applicants must be a school (public or private)
• Applicants must be registered on the PLT GreenSchools! website (It’s free!)
• Applicants must have established a Green Team
• Applicants must have completed one of more of the PLT GreenSchools! investigations
• The proposed project must be based on the findings of one or more of the PLT GreenSchools! investigations
• The maximum grant award is $1,000
• Grants must be completed in one year
• Applicants must have attended a Project Learning Tree (PLT) workshop
• The proposed project must involve service-learning
• The proposed project must exemplify student voice
• The proposed project must involve at least one community partner
• The proposed project must secure at least 50% matched funds (in-kind acceptable)

5/15/2012

The CSTA Future Science Teacher Award
California Science Teachers Association
Recognition
http://www.cascience.org/csta/res_awa
recognition 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.

5/15/2012

The Margaret Nicholson Distinguished Service Award
California Science Teachers Association
Recognition
http://www.cascience.org/csta/res_awa
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.

5/31/2012

Yes to Carrots Garden Grants
Yes to Carrots
$2000

http://yestocarrots.com/
All schools K-12 are eligible to apply for a grant. The 'Northern California' region (eligible for five $2,000 Seed Fund Grants) No one under 13 can apply without parental supervision and oversight. Applying schools should have a pre-existing commitment to gardening and an internal champion for the project.

5/31/2012 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.

5/31/2012 Captain Planet Foundation Grant
Captain Planet Foundation
$250-2,500 http://captainplanetfoundation.org/apply-for-grants/
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 2012

6/1/2012 Student Achievement Grants
The NEA Foundation
$5000 http://www.neafoundation.org/pages/educators/grant-programs/student-achievement-grants/
The proposed work should engage students in critical thinking and problem solving that deepen their knowledge of standards-based subject matter. The work should also improve students’ habits of inquiry, self-directed learning, and critical reflection. Proposals for work resulting in low-income and minority student success with honors, advanced placement, or other challenging curricula are particularly encouraged.

6/1/2012 Learning & Leadership Grants
The NEA Foundation
$5000 http://www.neafoundation.org/pages/educators/grant-programs/learning-and-leadership/
Grant supports public school teachers, public education support professionals, and/or faculty and staff in public institutions of higher education for one of the following purposes:
• Grants to individuals fund participation in high-quality professional development experiences, such as summer institutes or action research; or
• Grants to groups fund collegial study, including study groups, action research, lesson study, or mentoring experiences for faculty or staff new to an assignment.

6/1/2012 School Garden Grants
Western Growers Foundation
$1500+ http://www.westerngrowersfoundation.org/news/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.

6/1/2012 Sol Hirsch Education Fund Grants
National Weather Association
$750 http://www.nwas.org/grants/sohlirsch.php

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Printed: 5/2/2012 Teacher Grants
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.

**6/15/2012**

**School Garden Grant**  
California Fertilizer Foundation  
$1200  
http://www.calfertilizer.org/grant.htm  
Annually provides 24 grants for $1,200 each to schools throughout California (12 awarded twice a year). At the end of each year, winning schools can re-apply for a progress grant of $1,500 and a free agricultural field trip. Through the garden program, CFF provides direct funding to California schools for garden projects. The gardens provide an opportunity for students, teachers and parents to truly "grow" together.

**6/19/2012**  

**STEM & School Safety Grants**  
WeatherBug Schools  
Offset of price of WeatherBug system  
The STEM & School Safety Grant is available to schools interested in joining the WeatherBug Schools Program. The WeatherBug solution will enhance STEM content, safety, technology and provide community awareness for your school. I wanted to send you a reminder letting you know that there is still time for your school to access STEM & School Safety Grant funding.

**6/29/2012**

**Education Grants Program**  
Save the Redwoods League  
$1000-5000  
http://www.savetheredwoods.org/what-we-do/study/edgrants_application.php  
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 2012**

**7/1/2012**

**The Bauder Endowment for the Support of Physics Teaching**  
American Association of Physics Teachers  
$500  
http://www.aapt.org/Programs/grants/bauderfund.cfm  
Supports activities for AAPT members, such as workshops at the local level, that promote physics education utilizing physics apparatus. Funds can purchase equipment and materials used by participants in the workshop. Does not reimburse indirect or administrative costs.

**7/15/2012**

**Lowe's Toolbox for Education Grant Opens**  
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 2012, basic needs will take priority.

**August 2012**

**8/1/2012**

**Grants For Grades 6 - 12**  
Toshiba America Foundation  
$5000 +  
http://www.toshiba.com/taf/612.jsp

*We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org*
Toshiba America Foundation is currently accepting applications from teachers who are passionate about making science and mathematics more engaging for their students. Do you teach 6-12 science or math? Do you have a wish list of instructional equipment that will make learning more exciting for your students? Applications due August 1st and February 1st each year.

8/1/2012  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.

8/1/2012  Field Trip Grants - First Day to apply  
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

September 2012

9/30/2012  Field Trip Grants - Deadline to apply  
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

9/30/2012  Captain Planet Foundation Grant  
Captain Planet Foundation  
$250-2,500  http://captainplanetfoundation.org/apply-for-grants/  
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)

9/30/2012  Classroom Grants - Berkeley USD ONLY  
Berkeley Public Education Foundation  
$100-$5000  http://www.bpef-online.org/grants/classroom-grants/  
Date approx based on last year - Classroom Grants are designed to meet the following goals: increase student engagement, motivation, and exposure to new concepts and ideas; bridge the “opportunity gap” to allow all students to reach their full potential through enriched learning environments; strengthen teaching tools and strategies in core academic subjects, including the arts; encourage collaboration and professional development among teachers; increase parent and community involvement in our schools.

9/30/2012  Traditional GreenWorks! Grant  
Project Learning Tree  
$1000  http://www.plt.org/applyforagrant  
Grants must be completed in one year  
• Applicants must have attended a Project Learning Tree (PLT) workshop1  
• The proposed project must involve service-learning  
• The proposed project must exemplify student voice2  
• The proposed project must involve at least one community partner  
• The proposed project must secure at least 50% matched funds (in-kind acceptable)

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Printed:  5/2/2012  Teacher Grants
# Teacher Grants: Rolling or Continuous Deadlines

<table>
<thead>
<tr>
<th>Teacher wishlist</th>
<th>Adopt-A-Classroom Grants</th>
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</thead>
<tbody>
<tr>
<td><strong>Adopt-A-Classroom</strong></td>
<td></td>
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<tr>
<td><a href="http://www.adoptaclassroom.org">http://www.adoptaclassroom.org</a></td>
<td></td>
</tr>
<tr>
<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>
<td></td>
</tr>
</tbody>
</table>

| **$200** |
| **AIAA Classroom Grants** |
| **AIAA Foundation** |
| http://www.aiaa.org/content.cfm?pageid=216 |
| DEADLINE 30 days before quarterly meetings in JAN, MARCH, JUNE, SEPT. Funding for materials needed to teach: a. Aerospace Technology; b. Biological and Physical Research; c. Earth Science; d. Human Exploration and Development; e. Space Science |

| **Approximate value - $1000** |
| **Amy Chamberlain Scholarship Fund** |
| **Bay Area Wilderness Training** |
| http://www.bawt.org/amy-chamberlain/ |
| Each scholarship provides full tuition to BAWT’s Wilderness Leadership Training (WLT), as well as additional post-course support including site visits by BAWT staff during the 12 months following WLT participation. Must apply one month prior to the class you desire to take. |

| **$100-1000** |
| **Classroom Wishlist** |
| **DonorsChoose.org** |
| http://www.donorschoose.org/ |
| Teachers describe classroom needs. Contributors decide where they want to put their money. Many corporations including Disney and Chevron are now using DonorsChoose.org as the way they give away money to education. |

| **discounted bus** |
| **Parks Express Transportation Services** |
| **East Bay Regional Parks District** |

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Printed: 4/30/2012
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 December for the coming year. 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
Grants for outdoor environmental education field trips for grades 3 - 5. 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. Can be used for program or bus fees.

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

$2,500 or $5,000
The Big Help Grant
Nickelodeon: The Big Help
http://pro-social.nick.com/grant-application/
The Big Help Grant Program: Million Dollars for a Million Moves. Throughout 2010, Nickelodeon will award $1M in grants to schools and community organizations enabling kids around the country to achieve the goal of a million acts of help. The Big Help Grant Program will support projects that inspire kids to (1) take care of the environment; (2) lead active, healthy lives; (3) engage in community service; or (4) improve their educational experience.

Bus Transportation Scholarship for Oakland and Richmond
Oakland Museum
A limited number of scholarships are available: Must be in the OUSD(includes charter schools) or a Richmond public school. At least 70% of students at the school qualify for the free or reduced lunch program. One scholarship per teacher each school year. Awarded on a first-come, first-served basis. Teachers who qualify will receive a Bus Transportation Authorization, with a scheduling code. Teachers will contact the bus company directly to book the transportation. Bus must be used between 8:30 a.m. & 2:00 p.m. Any fees arising from the use of a bus after 2:00 p.m. will be charged back to you.

Grants for Teachers
Teacher Planet
http://grants4teachers.com/
Database of education grants of all types and amounts.

$5000 of less
Mini-Grants For Grades 6 - 12
Toshiba America Foundation
http://www.toshiba.com/taf/612.jsp
Wanted: Classroom Innovators! Toshiba America Foundation is accepting applications from teachers who are passionate about making science and mathematics more engaging for their students. Do you have a wish list of instructional equipment that will make learning more exciting for your students?

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Printed: 4/30/2012
Teacher Grants
Temporary & New Science Exhibits Around the Bay Area

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

Adventures with Clifford The Big Red Dog
(May 19 - September 2, 2012) - It's going to be a big red summer with Adventures With Clifford The Big Red Dog™! Board the Birdwell Island ferry and journey to the world of Clifford™. The exhibit will introduce children to Clifford's world and offers numerous immersive "paws-on" adventures that reinforce Clifford’s Big Ideas. These 10 simple, tangible, life lessons are designed to help young children navigate their world: Share, Play Fair, Have Respect, Work Together, Be Responsible, Be Truthful, Be Kind, Believe in Yourself, Be a Good Friend and Help Others.

Bay Model Visitor Center
Sausalito http://www.spn.usace.army.mil/bmvc

Re-Opening of the Renovated Bay Model
February 25 - Come celebrate the grand "reopening" of the Bay Model! Construction on the Bay Model has given it "new life" and a fresh look, inside and out. Stimulus funding provided by the American Recovery and Reinvestment Act (ARRA) of 2010 financed all construction. Major work completed includes a new roof with nearly 2,500 solar panels, a seismic retrofit of the Bay Model warehouse, structural work on the model itself, energy efficient lighting for the Bay Model and much more!

California Academy of Sciences
San Francisco http://www.calacademy.org

Animal Attraction
(NEW GALLERY open now) Animal Attraction explores some of the wildest courtship and mating strategies in the animal kingdom. From mate-munching bugs to leaping fish, learn how animals go to extremes to pass on their genes.

Earthquake
(NEW Exhibit opens May 26) Earthquake is a major new exhibit and planetarium. Take a kinetic journey toward understanding these super seismic phenomena and how they fit into the larger story of our ever-changing Earth. A new planetarium show will launch you on a breathtaking tour through space and time. Fly over the San Andreas fault before diving into the planet's interior, travel back in time to witness both the 1906 San Francisco earthquake and the break-up of Pangaea 200 million years ago, and much more.

Lawrence Hall of Science
Berkeley http://www.lhs.berkeley.edu

Tony Hawk Rad Science
(May 26 – September 3, 2012) — Get the science behind extreme sports at the world premier of Tony Hawk Rad Science. Explore the physics behind sports like skateboard, BMX biking, and snowboarding. Put a cool new spin on science. Skateboard legend Tony Hawk uses extreme sports to demonstrate such important principles as gravity, force, motion, acceleration, velocity, and inertia. Understand why skateboarding, BMX biking, and snowboarding are so amazing to watch and do as you learn about the science that lets Tony pop an ollie or pull off a double heel flip. Currently under development in collaboration with the Tony Hawk Foundation, the exhibition makes science concepts relevant, accessible, and engaging for young visitors and connects scientific ideas with popular kids’ sports.
Lindsay Wildlife Museum  
Walnut Creek  http://www.wildlife-museum.org

**Hunters in the Sky**  
(New Exhibit) - Come soar like a hawk over Mount Diablo in flight simulation models and learn all about the beaks, feathers and feet that make raptors such successful hunters.

**Wildlife Hospital, Behind the Scenes**  
(New Exhibit) - Witness presentations of actual hospital procedures performed on wild patients behind one-way glass in an all-new operating theater. Try your hand at preparing special animal diets at the touch-screen display, check out the interactive microscope station and see how x-rays help our hospital staff in diagnosing problems in patients brought to the hospital - from a tiny tree frog to a bobcat.

Monterey Bay National Marine Sanctuary  
Monterey  http://www.mbnmsf.org

**Marine Sanctuary Exploration Center - Grand Opening**  
The MBNMS is opening a premiere interpretive center in Santa Cruz, CA the summer of 2012. The Sanctuary Exploration Center is a state-of-the-art education and interpretive center offering high-quality multimedia exhibits, educational programs, lectures and film to an anticipated 150,000 to 200,000 visitors annually. In addition to exhibits, the Sanctuary Exploration Center will include a teaching classroom, administrative offices, a gift store and a catering support kitchen. At 12,300 square feet, this Center is designed to meet U.S. Green Building Council’s standards for Leadership in Energy and Environmental Design (LEED) achieving a minimum of GOLD rating. The Sanctuary Exploration Center will be free to the public and open five days per week in the fall, winter and spring months, and open seven days per week in the summer months during the peak. The Sanctuary Exploration Center will contribute substantially to the education mission of NOAA’s Office of National Marine Sanctuaries; and will serve the residents and visitors to Monterey Bay, with the majority coming from the greater Northern California and Central Valley areas. The Center will encourage visitors to examine the remarkably productive marine environment in the Monterey Bay region, the issues impacting the sanctuary and their personal roles in protecting one of our nation's national treasures. The Center is located in Santa Cruz, CA.

NASA Education  
http://www.nasa.gov/offices/education/about/index.html

**Sun-Earth-Day - Transit of Venus 6/5/12**  
Join NASA from the Observatory on top of Mauna Kea - best viewing spot in the world for the Transit of Venus on June 5th, 2012. Yes, it is coming and we are already making plans to bring everything to you so you won’t miss an event that will not be visible again until 2117! Many museums, universities, Amateur Astronomy Clubs, NASA centers and classrooms are planning events. For all the resources you will need for your own event and to enter information onto the Google map, visit http://sunearthday.nasa.gov