Science Resource Guide - Fall 2012

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 Temporarily Science Exhibits. Next issue—February 2013.

Science Literature and Common Core Connections

Connecting hands-on science activities with reading and writing lessons is a great way to build both science and literacy skills at the same time. CRS has compiled a list of quality fiction and non-fiction books that will support science at your grade level. [http://www.crscience.org/educators/scienceliterature](http://www.crscience.org/educators/scienceliterature) This web page also has links to more literature connections.

Common Core information can be found at [http://www.edutopia.org/common-core-state-standards-resources](http://www.edutopia.org/common-core-state-standards-resources)

[http://www.sharemylesson.com](http://www.sharemylesson.com/) allows you to search for and share lessons that integrate common core curriculum goals.

Don’t forget to check out our website for even more resources while planning your science lessons.
[http://www.crscience.org/educators/foreducators](http://www.crscience.org/educators/foreducators)

Are you a Science Super Star?

- Teachers, do you enthusiastically bring science experiences across the curriculum into your classroom?
- Do all your students participate in hands-on lessons and read and write about science?
- Do you and your colleagues collaborate to bring engaging science experiences to your classrooms?
- Does your school's staff take full advantage of the services that CRS provides to them?

We want to reward you...

...for the science teaching and learning happening in your classrooms and schools.

We have partnered with publishers and local science museums, institutions, and program providers to bring you classroom sets of nonfiction science books, school-wide assemblies, classroom field trips, and many more great prizes!

Go to [http://www.crscience.org/sciencesuperstarprogram](http://www.crscience.org/sciencesuperstarprogram) to learn more about how your classroom and/or your school can Take the Science Super Star Challenge.

Keep CRS Support Coming All Year

Has Your CRS Membership been Renewed?

There’s an easy way to find out. Please Check the address label on this packet. If your expiration date is Sept 2013 you're all set. If not, please email us at CRS@crscience.org to renew. Include your school, grade, and preferred email.

Generous sponsorship from individual donors, the Bechtel Foundation, the Scully Foundation, Bayer and Clorox allows us to continue your CRS memberships for another year for free.

Don't miss out on invitations for free BASIS scientist visits!

Make sure we have your current email address! Send us a quick email to: CRS@crscience.org so you'll get the invitations and monthly e-NewsBlasts.

Ask CRS for Help!

We’re here to be your science concierge. If you can’t find something yourself, ask us. It’s as easy as emailing Corinn at CRS@crscience.org or calling the office at 510-527-5212.

Join us to celebrate 15 years of science support!

RSVP at toastto15.eventbrite.com
Some of our Favorite Science Education Websites

Go to http://www.crsce.org/educators/treasuretrove to find even more great websites.

**National Science Teachers Association (NSTA)**
http://www.nsta.org/
Many free resources and articles available on-line, from activity ideas to research on best practices in science education at all grade levels. Annual membership provides you access to an extensive library of activities, articles, professional development activities and excellent periodicals. You also get a discount to their store full of activity books.

**HowtoSmile.org**
http://howtosome.org/
Online community of people who are looking for and want to contribute activity ideas in math and science.

**Understanding Science**
http://undsci.berkeley.edu/
This site is designed for teachers to get to the heart of what the practice of science really is. Includes activity guides.

**FOSS kit Teacher Preparation Videos**
http://lhsfoss.org/fossweb/schools/teachervideos/index.html
This site has videos of every FOSS unit and shows all the equipment and what the experiment looks like. Professional development when you want it.

**Bay Area Science**
http://www.bayareascience.org/
Use this site to find science lectures, classes and events around the Bay Area for you or the families at your school.

**National Science Digital Library (NSDL)**
http://nsdl.org
National, free, online library for education and research in Science, Technology, Engineering, and Mathematics.

**Share My Lesson**
http://www.sharemylesson.com/
Find lesson plans that use the common core standards or share you own.

**Ology**
http://www.amnh.org/explore/ology
Invite your students to visit the Museum's science website for kids. They'll find hands-on activities, games, and scientist interviews.

**eThemes**
http://www.emints.org/ethemes/
Online database of age-appropriate, theme-specific teaching materials created by educators, for educators.

**Ask a Scientist**
http://www.science.ca/askascientist/askascientist.php
Index of questions and answers about basic science questions, plus links to other "ask a scientist" sites.

**NASA's Educator Portal**
http://www.nasa.gov/audience/foreducators/
All of NASA's education resources in one spot. Organized by keyword, grade level, product type, and subject.

**The Science Spot**
http://sciencespot.net
Includes lessons, links, reference desk, puzzles, and shared teaching tips.

**TryScience.org**
http://www.tryscience.org/
This site has on-line activities and field trips on all areas of science. Available in nine different languages.

**BBC Science Clips**
http://www.bbc.co.uk/schools/scienceclips/index_flash.shtml
A great array of on-line animated science activities for kids sorted by age and topic.
Program Deadlines

October 2012

10/1/2012  Registration opens for Spring Programs
Hidden Villa  
http://www.hiddenvilla.org/HVEEP.php

10/1/2012  Applications for Teacher at Sea program BEGINS
National Oceanic and Atmosphere Administration  
http://teacheratsea.noaa.gov/about/index.html

10/15/2012  Deadline for Oct 29-Dec 9, 2012 Online Professional Development
American Museum of Natural History  
http://learn.amnh.org/

10/15/2012  Spring 2013 Program Sign-up Deadline
Slide Ranch  
http://www.slideranch.org

10/31/2012  Teacher at Sea program application DEADLINE
National Oceanic and Atmosphere Administration  
http://teacheratsea.noaa.gov/about/index.html

December 2012

12/3/2012  Lottery Deadline for Winter & Spring Fieldtrips
East Bay Regional Park District  
http://www ebparks org/activities/educators/trips
# Teacher Grants: Specific Deadlines

## October 2012

<table>
<thead>
<tr>
<th>Date</th>
<th>Grant Description</th>
<th>Grant Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/1/2012</td>
<td><strong>Fund for Teachers Grants OPEN - Oakland &amp; San Francisco Teachers</strong></td>
<td><em>Application available October 1. Apply on-line. Oakland USD and San Francisco USD. Money for professional development</em></td>
</tr>
<tr>
<td></td>
<td><strong>Toshiba America Foundation</strong></td>
<td><em>Eligible projects must: advance the teacher’s science and math K-5 education, occur during the school day, take place over at least three class sessions, not be based solely on the purchase of a pre-packaged kit, and be completed by May 1st.</em></td>
</tr>
<tr>
<td>10/1/2012</td>
<td><strong>Science Project Support Application</strong></td>
<td><em>Acceptance of Science Project Support is subject to the following conditions: Each teacher may request a maximum of 150 science project poster boards. Each teacher may request a maximum of one Edison UV Meter. Science Project Support is available only to teachers at public schools or private not-for-profit schools located in California. Science project poster boards are DONATED by the Synopsys Outreach Foundation. The boards MAY NOT be re-sold to students or parents. Teachers and school administrators will recognize the Foundation's donation in any science fair related materials and publicity. In order to insure equitable distribution of the science project poster boards, the Foundation may reduce the number of boards allotted for your school. All materials provided by the Synopsys Outreach Foundation are donations made to the school and not to any teacher as an individual.</em></td>
</tr>
<tr>
<td>10/12/2012</td>
<td><strong>Lowe’s Toolbox for Education Grant</strong></td>
<td>*<a href="http://www.toolboxforeducation.com/">http://www.toolboxforeducation.com/</a></td>
</tr>
<tr>
<td>10/15/2012</td>
<td><strong>The Lorrie Otto Seeds for Education Grant Program</strong></td>
<td></td>
</tr>
</tbody>
</table>

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

http://www.for-wild.org/seedmony.html

The Lorrie Otto Seeds for Education Grant Program gives small monetary grants to schools, nature centers, and other non-profit and not-for-profit places of learning in the United States, including houses of worship, with a site available for a stewardship project.

10/15/2012

Learning & Leadership Grants

The NEA Foundation

$2000-5000

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

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

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

10/15/2012

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.

10/15/2012

NAREN Grants for Program Support

National At-Risk Education Network

$250

http://atriskeducation.net/grants/

The grant is a needs-based grant, meaning that the monies cannot be used for decorative or non-programmatic concerns. Supplies, equipment, field-trip expenses, paying for resource people to come into the school to work with students, curricular materials are all viable categories of expenditures. The program for which funds are requested must be strictly for at-risk youth, and not a program receiving special education funding. The applying educator must be a NAREN associate, and willing to be accountable and responsible for the application of the grant and the expenditures.

10/15/2012

Fulbright Classroom Teacher Exchange Program

Fulbright Teacher Exchange

http://www.fulbrightteacherexchange.org/

Exchange classrooms for a semester or year

The Fulbright Classroom Teacher Exchange Program provides opportunities for teachers to participate in direct exchanges of positions with colleagues from other countries for a semester or a year. By living and working abroad, exchange teachers gain an understanding and appreciation of different educational systems and cultures, and enrich their schools and communities by providing students with new perspectives about the world in which they live.

10/17/2012

Educator Grants

Air Force Association

$250

http://www.afa.org/aei/aid/educator.asp

The Educator Grant program promotes aerospace education activities in classrooms from kindergarten through twelfth grades. The program encourages development of innovative aerospace activities within the prescribed curriculum.

10/31/2012

Subaru Healthy Sprouts Awards

KidsGardening.org
To be eligible for the 2010 Healthy Sprouts Awards, your school or organization must plan to garden in 2011 with at least 15 children between the ages of 3 and 18. The selection of winners is based on the demonstrated relationship between the garden program and education related to environmental, nutrition and hunger issues in the United States. Awards to 30 schools or organizations. Each program will receive: a $500 gift certificate to the Gardening with Kids catalog and online store for basic youth gardening supplies and supporting educational materials NGA’s Eat a Rainbow Kit of engaging taste education and nutrition lessons.

Community Grants
CVSCaremark
up to $5,000

Grants of up to $5,000 are available to public schools and other non-profits focused on providing inclusive programs for children and other individuals under 21 with disabilities.

Mickelson ExxonMobil Teacher Academy
National Science Teachers Association
all expenses paid

The NSTA is sponsoring the Mickelson ExxonMobil Teacher Academy for 3rd-5th grade teachers to learn more about mathematics and science. The Academy is a summer camp for teachers to do math and science experiments that they can later use in the classroom. Teachers will be joined by math and science experts from the NSTA and Math Solutions.

November 2012

Environmental Education Grants
The Lawrence Foundation
$5000

The foundation is focused on making grants to support environmental, education, human services and other causes although our interests are fairly diverse and may lead us into other areas on an occasional basis.

Bay Watershed Education and Training Program (B-WET)
National Marine Sanctuaries
$30,000-60,000

Competitively based program that supports existing environmental education programs, fosters the growth of new programs, and encourages the development of partnerships among environmental education programs throughout the San Francisco Bay, Monterey Bay, and Santa Barbara Channel watersheds.

American Honda Foundation Grant
American Honda Foundation
$20,000-75,000

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

Whale Tail Grants Program
California Coastal Commission, Public Education Program
$500-$50,000

The grants support programs that teach California’s children and the general public to value and take action to improve the health of the state’s marine and coastal resources. Adopt-A-Beach programs, as well as other beach maintenance and coastal habitat restoration projects that have an educational component, are also eligible for these grants. This grants program focuses on reaching communities that are currently poorly served in terms of marine and coastal education.

Shell Science Teaching Award
National Science Teachers Association

Printed: 9/14/2012  Teacher Grants
<table>
<thead>
<tr>
<th>Award Title</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$10,000 and Expenses to attend NSTA conference</td>
<td></td>
<td>This award recognizes one outstanding classroom science teacher (K–12) who has had a positive impact on his or her students, school, and community through exemplary classroom science teaching. Award: $10,000 and an all-expense paid trip to attend NSTA’s National Conference; two finalists will also receive all-expense-paid trips to the conference.</td>
</tr>
<tr>
<td>11/30/2012 Faraday Science Communicator Award</td>
<td></td>
<td>National Science Teachers Association</td>
</tr>
<tr>
<td><a href="http://www.nsta.org/about/awards.aspx">http://www.nsta.org/about/awards.aspx</a></td>
<td></td>
<td>The individual will not be a classroom teacher, but will work in, or have developed a compatible setting for science communication: i.e., museum, nature center, zoo, state park, aquarium, radio, television, internet, or other science-rich institutions or media. The individual may also be connected to a science setting through his or her involvement with civic organizations and child-education facilities: e.g., preK child-development centers, 4-H clubs, Girl and Boy Scouts, Girls and Boys Clubs of America, and so on. Organizational—The organization will facilitate and provide exemplary opportunities for science communication to the public. The organization will desire to instill in the public an appreciation for science through communication efforts at the local, state, and national levels. Award: Honored at the Awards Banquet during NSTA National Conference; all-expense-paid trip (up to $2,500) to attend the Conference;</td>
</tr>
<tr>
<td>11/30/2012 DCAT “Making a Difference” Award</td>
<td>$2500</td>
<td>National Science Teachers Association</td>
</tr>
<tr>
<td><a href="http://www.nsta.org/about/awards.aspx">http://www.nsta.org/about/awards.aspx</a></td>
<td></td>
<td>This award will recognize and honor excellence in a science program developed and implemented by middle- or high school-level science teachers, grades 6–12. Entries must show innovative and effective teaching strategies combined with a science program that has influenced students to explore and investigate science and its application to global problems. Award: $2,500 to be used to enhance or expand the winning science program; the winning school’s lead science teacher and principal will be awarded coach airfare and two nights’ hotel accommodation to attend NSTA’s National Conference.</td>
</tr>
<tr>
<td>11/30/2012 Delta Education/Frey-Neo/CPO Science Awards for Excellence in Inquiry-based Science Teaching</td>
<td>$1500</td>
<td>National Science Teachers Association</td>
</tr>
<tr>
<td><a href="http://www.nsta.org/about/awards.aspx">http://www.nsta.org/about/awards.aspx</a></td>
<td></td>
<td>Recognizes and honors three (3) full-time PreK–12 teachers of science who successfully use inquiry-based science to enhance teaching and learning in their classroom. Award: $1,500 towards expenses to attend the NSTA National Conference, and $1,500 for the awardee.</td>
</tr>
<tr>
<td>11/30/2012 Maitland P. Simmons Memorial Award for New Teachers</td>
<td></td>
<td>National Science Teachers Association</td>
</tr>
<tr>
<td><a href="http://www.nsta.org/about/awards.aspx">http://www.nsta.org/about/awards.aspx</a></td>
<td></td>
<td>The Maitland P. Simmons Memorial Award for New Teachers provides selected K–12 teachers (up to 25) in their first five years of teaching with funds to attend the annual National Conference on Science Education. Award recipients will be mentored, tracked, and provided with continuing opportunities for meaningful involvement with NSTA and its activities. Eligibility: To be eligible, a teacher must be within the first five years full-time at the time of application and be an NSTA member in good standing; to the extent possible, recipients must have been a student member of NSTA as a preservice teacher. Award: The award consists of up to $1,000 to be used to attend the annual National Conference; recipients will be invited to attend a variety of workshops and presentations that are of particular interest to new teachers at the annual National Conference.</td>
</tr>
<tr>
<td>11/30/2012 Sylvia Shugrue Award for Elementary School Teachers</td>
<td></td>
<td>National Science Teachers Association</td>
</tr>
<tr>
<td><a href="http://www.nsta.org/about/awards.aspx">http://www.nsta.org/about/awards.aspx</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
This award honors one elementary school teacher who has established (or is establishing) an interdisciplinary, inquiry-based lesson plan. The lesson plan will fully reference sources of information and any relevant National Science Education Standards and benchmarks found in the Atlas of Science Literacy. Eligibility: Elementary school teachers (grades K–6); applicants must be a full-time teacher with a minimum of five years of experience. Award: The award consists of $1,000 and up to $500 to attend the NSTA National Conference on Science Education; the recipient of the award will be honored during the Awards Banquet at the NSTA Conference.

11/30/2012

Vernier Technology Awards
National Science Teachers Association

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

11/30/2012

Distinguished Teaching Awards
National Science Teachers Association

This award honors NSTA members who are teachers that have made extraordinary contributions to the field of science teaching. Eligibility: K–college-level teachers. Award: Formal citation, three nights’ hotel accommodation, and $500 toward expenses to attend the NSTA National Conference.

11/30/2012

Angela Award
National Science Teachers Association

This award honors one female student in grades 5-8, who is involved in or has a strong connection to science. The award has been established in honor of Gerry Wheeler and his outstanding dedication to NSTA and lifelong commitment to science education. This award is open to any female student in grades 5–8, who is a resident of the United States, US Territories, or Canada, and are enrolled full time in public, private, or home school. NSTA employees, NSTA Board and Council members, award judges and their immediate families are not eligible to apply.

11/30/2012

Wendell G. Mohling Outstanding Aerospace Educator Award
National Science Teachers Association

This award recognizes excellence in the field of aerospace education. Individuals nominated for this award and have a minimum of three years teaching experience. Self-nominations will be accepted. Award: $3,000, and $2,000 in expenses to attend NSTA’s national conference.

11/30/2012

Distinguished Service to Science Education Awards
National Science Teachers Association

These awards honor NSTA members who, through active leadership and scholarly endeavor over a significant period of time, have made extraordinary contributions to the advancement of education in the sciences and science teaching. Eligibility: NSTA members who have shown long-term dedication to science education. Award: Formal citation, three nights’ hotel accommodation, and up to $500 towards expenses to attend the NSTA National Conference.

11/30/2012

Fuel Your Schools Grant
Chevron

Available to teachers in Alameda and Contra Costa Counties. Chevron is funding teacher projects posted on DonorsChoose.org. See the "Fuel Your Schools" web page for more details.
National Science Teachers Association

This award recognizes NSTA members who have made extraordinary contributions to science education through personal commitment to education, specifically science teaching or science; educational endeavors and original work that position recipients as exemplary leaders in their field; significant contributions to the profession that reflect dedication to NSTA as well the entire educational community.

Eligibility: This award is open to longstanding (at least 10 years) NSTA members

Award: Awardees will be recognized at the NSTA Awards Banquet in conjunction with the NSTA National Conference

Expenses to attend NSTA conference

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

Distinguished Informal Science Education Award

National Science Teachers Association

Honors one NSTA member who has made extraordinary contributions to the advancement of science education in an informal or nontraditional school setting, such as a science-technology center, museum, or community science center. Eligibility: NSTA members who are not classroom teachers and who have demonstrated their dedication to informal science education Award: Formal citation, three nights’ hotel accommodation, and $500 towards expenses to attend the NSTA National Conference

Expenses to attend NSTA conference

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

December 2012

Outstanding Leadership in Science Education

National Science Education Leadership Association

$1000 and recognition


Award to an outstanding member who leads the school, school district, region, state, or area as science supervisor. Any member is invited to nominate a worthy colleague. Both nominator and nominee must be NSELA members in good standing.

PITSCO/Hearlihy/FTE Grant

International Technology Education Association

$2000

http://www.iteacconnect.org/Awards/granthearlihy.htm

Its purpose is to recognize and encourage the integration of a quality technology and engineering education program within the school curriculum. Criteria include: (1) evidence of an effective quality technology and engineering education program, (2) documented success in the integration of technology and engineering education with other academic subjects, and (3) plans for professional development via the anticipated grant. Applicant must be an ITEEA member and register for the ITEEA Annual Conference. (Membership may be enclosed with scholarship application).

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.

2012 Youth Garden Grants

KidsGardening.org

$1000 in materials

http://grants.kidsgardening.org/2013-youth-garden-grant-award

NGA awards Youth Garden Grants to schools and community organizations with child-centered garden programs. In evaluating grant applications, priority will be given to programs that emphasize one or more of these elements: * educational focus or curricular/program integration. * nutrition or plant-to-food connections, * environmental awareness/education, * entrepreneurship * social aspects of gardening such as leadership development, team building, community support, or service-learning.

Project Orange Thumb - date approx.
Fiskars
http://www2.fiskars.com/Activities/Project-Orange-Thumb/Grant-and-Garden-Makeover-Application
Funds projects geared toward community involvement, neighborhood beautification, sustainable agriculture and/or horticultural education. Grant Recipients Receive: *Up to $1,000.00 in Fiskars® Garden Tools  *Project Orange ThumbSM t-Shirts for garden members/volunteers.  *Up to $1000 for other materials such as plants, seeds, mulch, etc.

12/15/2012  Career Development Grants
American Association of University Women
$2,000-12,000
http://www.aauw.org/learn/fellowships_grants/career_development.cfm
Career Development Grants support women who hold a bachelor's degree and are preparing to advance their careers, change careers, or re-enter the work force. Special consideration is given to women of color, and women pursuing their first advanced degree or credentials in nontraditional fields. Grants provide support for course work beyond a bachelor’s degree, including a master's degree, second bachelor’s degree, or specialized training in technical or professional fields. Funds are available for distance learning.

12/15/2012  Distinguished Fulbright Awards in Teaching Program
Fulbright Teacher Exchange
http://www.fulbrightteacherexchange.org/
Study abroad
The Distinguished Fulbright Awards in Teaching Program is designed to recognize and encourage excellence in teaching in the U.S. and abroad. Twenty-four highly talented U.S. and international teachers are selected to receive a grant to study at a university, conduct research, teach classes and workshops, and develop a project pertaining to their field of educational inquiry during their semester overseas.

12/23/2012  Disney Planet Challenge - Grades 3-8
DonorsChoose.org
$500
http://disney.go.com/planetchallenge/
Teachers who submit a hands-on project request for up to $500 in materials focused on benefiting the environment (water conservation and watershed protection, recycling, composting, restoring/creating community gardens, etc.) are eligible to receive full funding if they complete three steps of registration on the Disney Planet Challenge website. To qualify, teachers must visit http://disney.go.com/planetchallenge/ anytime after September 15th and sign up for Disney’s Planet Challenge, using the same email address you use for your DonorsChoose.org account. Complete the following three steps on the Disney Planet Challenge website: Register on the site → Fill out your teacher profile → Add a team!

January 2013

1/2/2013  Teacher Induction Program
The National Teachers Hall Of Fame
$1000 +
http://www.nthf.org/nominate.htm
The National Teachers Hall of Fame serve as ambassadors both for the NTHF and the teaching profession, and are expected to uphold the standards of excellence set forth by the educational community.

1/2/2013  2013 Muhammad Ali Center Peace Garden Grant
KidsGardening.org
$500
http://grants.kidsgardening.org/2013-muhammad-ali-center-peace-garden-grant
Peace gardens focus on using edible plants from different cultures providing youth with the opportunity to learn about the world through culinary delights. Edible gardens in particular provide opportunities for youth to learn how to nurture and care for other living things while also learning how to care for themselves. Students gain first-hand experience through the process of growing food and gaining the skills needed to increase their access to fruits and vegetables. What better way to create awareness about hunger than to have them actively involved in growing a garden, taking food home to their families, and giving to the community. To be eligible for the 2013 Muhammad Ali Center Peace Garden, your school or organization must plan to garden in 2013 with at least 15 children between the ages of 3 and 18. Schools within the United States must have a student body eligible for 50% or more reduced or free lunches.

1/5/2013  Albert Einstein Distinguished Educator Fellowship - date approx Einstein Fellowship

$7000/month in stipend and housing expenses

Einstein Fellows usually spend a school year in a professional staff position in the U.S. Senate or House of Representatives, at the Department of Energy (DOE), or at other federal agencies such as the National Aeronautics and Space Administration (NASA), the National Science Foundation (NSF), or the National Institute of Standards and Technology (NIST).

1/15/2013  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. 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.

1/15/2013  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)

1/15/2013  Community Action Grants
American Association of University Women

$2,000-10,000

http://www.aauw.org/learn/fellowships_grants/community_action.cfm

Community Action grants provide funds to individuals local community-based nonprofit organizations for innovative programs or non-degree research projects that promote education and equity for women and girls. • One-year grants ($2,000-$7,000) provide seed money for new projects. • Two-year grants ($5,000-$10,000) provide start-up funds for longer-term programs that address the particular needs of the community and develop girls' sense of efficacy through leadership or advocacy opportunities. Topic areas are unrestricted, but should include a clearly defined activity that promotes education and equity for women and girls. Applicants must be women who are U.S. citizens or permanent residents. Special consideration is given to projects focused on K-12 and community college girls' and women's achievements in science, technology, engineering or math.
# Teacher Grants: Rolling or Continuous Deadlines

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

| **$250** |
| **AIAA Classroom Grants** |
| **AIAA Foundation** |
| 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** |
| 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. |

| **discount bus rental rate** |
| **Black Tie Community Bus** |
| **Black Tie Transportation** |
| Bus is offered to non-profit organizations and to schools to transport children ages K-12 for school outings. The bus is available at a discounted rate to those who apply in advance and meet the requirements of the application process. Seating: Grades K-4, 60 passengers (3 adults required) Grades 5-12, 42 passengers (2 adults required) Rates // $75.00 per hr (5 hour min.) |

| **computer hardware** |
| **Classroom Computers** |
| **Computers for Learning** |
| Schools register and request equipment on the Computers for Learning web site. Federal agencies match their surplus equipment to schools with those needs. Computers and equipment are not refurbished by the government before being shipped to schools, nor are they covered by warranty. |

| **$100-1000** |
| **Classroom Wishlist** |
| **DonorsChoose.org** |
| 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 Park District** |
| [http://www.ebparks.org/activities/educators/trips#parkex](http://www.ebparks.org/activities/educators/trips#parkex) |

---

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

Printed: 9/10/2012
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.

up to $500  
Horace Mann Classroom Projects

Horace Mann Educators Corporation  
https://www.facebook.com/HoraceMannInsurance/app_293243000744840
Horace Mann is funding classroom projects each week through DonorsChoose.org Then you need to "like" them on facebook and submit your DonorsChoose Project number.

$500 in materials  
Classroom Wishlist

iLoveSchools.com  
http://www.iloveschools.com/
Register your school with I Love Schools.com. The site matches you up with people wanting to donate equipment to your school.

$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.

Discounted admission to Oakland Museum  
Program Scholarship for Oakland and Richmond

Oakland Museum  
A limited number of scholarships are available and are awarded based on these criteria:
- Scholarships are available for programs at the Museum, but not for docent-led or self-guided tours.
- Your school must be in the Oakland Unified School District (includes charter schools).
- At least 70% of students at the school must qualify for the free or reduced lunch program.
Please note:
- Qualified applicants may receive up to a 50% reduction of the program fee.
- One scholarship per teacher each school year.
- Scholarships are awarded to classrooms on a first-come, first-served basis.

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 9/10/2012  Teacher Grants 2
<table>
<thead>
<tr>
<th><strong>Bus Transportation to Oakland Museum</strong></th>
<th><strong>Bus Transportation Scholarship for Oakland and Richmond</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oakland Museum</strong></td>
<td>A limited number of scholarships are available and are awarded based on these criteria:</td>
</tr>
<tr>
<td></td>
<td>• Your school must be in the Oakland Unified School District (includes charter schools) or a Richmond public school.</td>
</tr>
<tr>
<td></td>
<td>• At least 70% of students at the school must qualify for the free or reduced lunch program.</td>
</tr>
<tr>
<td>Please note:</td>
<td>• One scholarship per teacher each school year.</td>
</tr>
<tr>
<td></td>
<td>• Scholarships are awarded to classrooms on a first-come, first-served basis.</td>
</tr>
<tr>
<td></td>
<td>• Teachers who qualify will receive a Bus Transportation Authorization, with a scheduling code.</td>
</tr>
<tr>
<td></td>
<td>• Teachers will contact the bus company directly to book the transportation, using the code as authorization.</td>
</tr>
<tr>
<td>The Museum will be billed for the bus, so no OUSD purchase order will be necessary.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>$1000 for fieldtrips</strong></th>
<th><strong>Excursion Grant</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Philanthropic Ventures Foundation</strong></td>
<td>Grants of up to $1,000 are available now to fund classroom excursions; funds can cover the cost of transportation, admission fees and food. Invited public school teachers for grades K-5, Alameda and San Mateo counties can apply for grant funding. Supported by funding from The Geballe Family.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>up to $2500</strong></th>
<th><strong>After School Grant Program</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Philanthropic Ventures Foundation</strong></td>
<td>Who: Alum Rock, East Side Union High, Franklin-McKinley, Oakland and Redwood City school district teachers grades 6-12th are eligible to apply. There is a limit of two grants per school each school year. What: Teachers are encouraged to come up with new ideas for after school programs. Grants up to $2,500 are available to cover costs of equipment, teacher time, and/or refreshments.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>up to $500</strong></th>
<th><strong>Science Grant</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Philanthropic Ventures Foundation</strong></td>
<td>Who: Any public school teacher, K-12, in Alameda or Contra Costa county is eligible to apply. A maximum of two grants will be awarded to a school. What: Grants of up to $500 will be awarded to teachers to enhance their classroom science programs relating to conservation. Requests may be for educational field trips, classroom science materials, classroom science presentations, or professional development. Examples: projects and fieldtrips related to the study of wetland and creek restoration, renewable energy, recycling, environmental problems, watershed pollution, and the protection of ecological systems, habitats and species.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Grants for Teachers</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Teacher Planet</strong></td>
</tr>
<tr>
<td>Database of education grants of all types and amounts.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>$5000 of less</strong></th>
<th><strong>Mini-Grants For Grades 6 - 12</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toshiba America Foundation</strong></td>
<td>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?</td>
</tr>
</tbody>
</table>

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

October 2012

10/1/2012  Teacher Resource Fair  Lindsay Wildlife Museum
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://wildlife-museum.org/visit/happening
Cost:  FREE  Stipend?
On Monday, October 1, Lindsay Wildlife Museum will be hosting a resource fair filled with information on various Bay Area programs for teachers, administrators, and home-school parents. In addition to featuring local math and science educational organizations, this year will include teacher workshops on the new National Core Curriculum and California "Next Generation" Science Standards. For more information, contact Connie Loosli at 925-627-2922 or cloosli@wildlife-museum.org.

10/4/2012  Educators Open House  Chabot Space and Science Center
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.chabotspace.org
Cost:  FREE  Stipend?
4:00-7:00 pm  Come join the Educational Team at Chabot for our second annual Educator's Night.  Come meet speakers Helen Quinn and Jonathan Osborne, authors of the new Framework for K-12 Science Education. Find out about our many field trip program opportunities which include 90-minute hands-on science classes for K-12 students in astronomy, earth, life, and physical and environmental sciences, as well as Planetarium shows and exhibit exploration opportunities. Visit the Challenger Learning Center® to learn about our special Simulated Space Missions for students in 5th grade and up. Chabot's Science Instructors will have all their labs and classrooms open and will be sharing sample activities and demonstrations for your exploration as well as be available to answer any questions. There will be finger food, wine, a free giveaway tote, and a raffle for prizes throughout the evening. Don't miss this fun night!

10/4/2012  Fall Teacher Night  The Presidio Trust
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.presidio.gov/visit/teachers/Pages/presidio-teachers-night.aspx
Cost:  FREE  Stipend?
Thursday Oct 4th from 5-7 pm.  - Every Fall … a great event for Bay Area teachers! Network, get inspired, gather support and engage with a broader community. The annual Presidio Teachers’ Night introduces educators to amazing learning opportunities for students at the Golden Gate National Parks. The park provides a great outdoor classroom serving more than 20,000 Bay Area students and teachers each year. Award-winning, curriculum-based programs stimulate teachers’ professional growth and help K-12 students achieve academically as well as understand and address major environmental and cultural issues in their communities. Each year, approximately 300 teachers, principals and curriculum specialists attend this “one stop shop” for local educators. Guests enjoy a reception and formal program, collect educational materials, network with other educators, and learn about opportunities and resources available outside the classroom.

10/4/2012 - 10/5/2012  The Growing Classroom: An Introduction to Garden Based Learning - Reg b  Life Lab Science Program
For Grades:  2nd;3rd;4th;5th;6th
http://www.lifelab.org/for-educators/workshops/gcworkshops/
Cost:  300  Stipend?

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

Printed:  9/14/2012  Professional Development  1
This two-day workshop, located at the amazing Garden Classroom or at your school site, is ideal for those interested in supplementing their existing science program with garden-based learning. Using The Growing Classroom activity guide for grades 2-6, you’ll experience hands-on activities, learn basic science concepts and gardening techniques, and develop management strategies for a school gardening program. Find out how to teach the standards while you guide students through the natural cycles of the garden. You’ll receive Life Lab’s 480 page book, The Growing Classroom as well as many other ideas and resources. Two days 9:00-3:30. One-day Growing Classroom workshops can also be arranged.

10/6/2012  Li'l Scientist  Resource Area for Teachers (RAFT)
For Grades:  K;PK
http://www.raftbayarea.org/workshops
Cost  $25 for members; $40 for non-members  Stipend?
If you introduce science concepts at an early age, children will understand those concepts better when they reach the age where they will actually study them. Learn some basic, hands-on projects that you can use to teach science to even the youngest of children.
INSTRUCTOR: Shalek Chappill has worked with children of all ages, backgrounds, and abilities. She currently works for Santa Clara Unified School District in the autism program. Concurrently, Shalek is attending Santa Clara University to receive an M.A. and credential in Special Education.

10/13/2012  Bring the Outside In - FREE  NatureBridge at Golden Gate
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.naturebridge.org/event/golden-gate/teacher-professional-development-golden-gate
Cost  FREE  Stipend?  $100
Simple Strategies for building community, using nature in your lessons, and getting your students outdoors. Workshops will be held at Pioneer East Meadow Picnic Area in Golden Gate Park. They are FREE and include take-away teaching toolkits. STIPENDS are available for teacher teams from the same school who attend two or more workshops.

10/13/2012  Tunnel Books for Science:  Resource Area for Teachers (RAFT)
For Grades:  3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.raftbayarea.org/workshops
Cost  $25 for members; $40 for non-members  Stipend?
The tunnel book is one of the most unusual and engaging books that students of any age can make. Whether the topic is oceans, planets or animals, tunnel books add to the excitement of the learning. Tunnels can be made about caves with petroglyphs, Greece, or the pyramids in Central America. We will explore a couple of ways to make them, from the simple 3D foldout used with younger kids to the more advanced tunnel books that 3rd graders up to adults all enjoy.
INSTRUCTOR: CJ Grossman has an MFA from California College of the Arts and a BS in social Welfare from San Francisco State. CJ works with mixed media, specializing in book arts, and exhibits her work nationally. CJ has taught thousands of children and adults how to make books and has a passion for teaching educators how to make books with kids. She lives in Berkeley and is former editor of "Kids Making Books."

10/13/2012  Discussing Evolution in the Classroom  Bay Area Earth Science Institute
For Grades:  4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.baesi.org/
Cost  FREE  Stipend?
Jon Hendricks (SJSU Geology/BAESI) and Luis Bonachea (SJSU Biological Sciences). Evolution is the unifying theory of biology, but is sometimes challenging to present and discuss in classroom settings. This workshop will focus on pedagogical strategies for teaching evolution in the classroom. A significant portion of the workshop will be devoted to participants describing their experiences teaching evolution and related ideas. Commonly encountered misconceptions about evolution and corresponding concepts related to geology and paleontology will also be addressed. If you need SJSU credit, you may combine any two sessions to earn 1 unit of Geology 104 for $50.

10/13/2012  Lab Open house  LBNL Center for Science and Engineering Education
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.lbl.gov/openhouse/
Cost  free  Stipend?
We’re here to help you find the science resources you’re looking for. Email us at CRS@crscience.org
Printed:  9/14/2012  Professional Development  2
Registration required! Explore the World of Science at Berkeley Lab

From the icy South Pole, the tundra of Alaska, and sub-zero Siberia, to the Amazon rain forest, tropical Samoa, and the coral reefs of Puerto Rico, Berkeley Lab scientists explore the world around us seeking solutions to humankind's most pressing challenges.

And the exploration continues in the lab, as researchers investigate ways to create new materials and biofuels, make our buildings more energy efficient, model climate change, or stem human diseases.

Families, community members, and science enthusiasts are invited to join our team of explorers at Berkeley Lab's Open House and make discoveries of their own.

10/13/2012 Free Teacher Preview - Mythbusters Exhibition
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.thetech.org/plan-your-visit/special-exhibitions/Mythbusters#Education
Cost FREE Stipend?
Space is limited. Call (408) 294-8324 to reserve your space.
Teachers must show active credentials at Open House. Sorry, due to limited space, no guests allowed for this preview.

10/13/2012 3RC- Recycle in the Classroom:
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.raftbayarea.org/workshops
Cost $15 for members; $30 for non-members Stipend?
As a student, what can I do to help Recycle in the Classroom? As a teacher, how can I teach in a FUN manner recycling? During this class, teachers will learn to present an interdisciplinary set of lessons in which students will improve their understanding of solid waste management. What are the 3 "R's" and where does "C" come from? Focusing on STEM and the new common core standards, this class will present several lessons for the teachers to use in their classrooms.
INSTRUCTOR: Marissa Ogden is an instructor for Spectrum of Science.

10/17/2012 Outdoor School Open House
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.walkercrekranch.org
Cost FREE Stipend?
The Marin County Outdoor School at Walker Creek Ranch is dedicated to helping elementary school teachers satisfy their educational goals through quality instruction within a special learning environment that inspires and motivates students to achieve an appreciation of the natural world. Using principals of thematic instruction, the Outdoor School enhances a students critical thinking, processing, and socialization skills.

10/19/2012 Plant It, Grow It, Eat It - Enhancing Nutrition Education - reg by 10/5/12
For Grades: 2nd;3rd;4th;5th;6th;7th;8th
http://www.lifelab.org
Cost $150 Stipend?
Make the connection from seed to table in this fun and delicious one-day workshop. Explore ways to teach nutrition through gardening, harvesting and meal preparation in Life Lab’s Chez Panisse Garden Kitchen. You’ll learn how effective ways to encourage kids grades 2-8 to eat more fruits and vegetables as part of a healthy lifestyle. Participants will sample the bounty of the farm and harvest to prepare a nutritious lunch. You’ll receive an activity packet with gardening and nutrition lessons, recipes, and garden kitchen resources.

10/20/2012 Technology for Pre-K to Grade 2:
For Grades: K;1st;2nd;PK
http://www.raftbayarea.org/workshops
Cost $20 for members; $35 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: 9/14/2012 Professional Development 3
Learn ways to help your students become familiar with technology. You will learn about free software that students can use for drawing and storytelling as well as websites that are made for young learners that reinforce reading and math skills.

INSTRUCTOR: Terri Sarappo is the technology instructor at St. Dunstan’s School in Millbrae. In this role she works with students in Kindergarten through 8th grade, teaching them computer skills. The objective of this program is to expand on classroom learning and to incorporate hands-on projects using the computer for research and to create projects ranging from presentations, computer drawing, videos and podcasts.

10/20/2012 Teacher Appreciation Sail  
Aquarium of the Bay  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://www.aquariumofthebay.org/teachers/teacher-resources/educator-events  
Cost FREE  
Stipend?  
Saturday, October 20th, 11 am – 1:30 pm (1:30 – 2:30 optional Aquarium guided tour)  
You and a guest are invited to experience San Francisco Bay aboard Alcatraz Cruise’s one-and-only hybrid ferry. We enjoy our Discover the Bay Hybrid Ferry Program so much that we can’t think of a better way to show our appreciation than inviting you aboard for snacks and our favorite on-board activity station: a plankton viewing! Information about our FREE, standards-based K-12 classroom programs and will be offering a free guided tour of Aquarium of the Bay after the boat ride. The tour will be a great way to prepare for bringing your class on a field trip to the Aquarium and a chance to get any questions about our exhibits and animals answered. Want more reasons to come? Teachers attending our annual Teacher Appreciation Sail receive 20% off at the Aquarium’s retail stores and can enter to win a membership to the Aquarium. And don’t forget – teachers can always take advantage of free admission to the Aquarium just by showing a school ID. If you have questions, or would like to reserve a spot, please contact Sonja Gomez, Education and Volunteer Manager.

10/19/2012 - 10/21/2012  
2012 California Science Education Conference - San Jose  
California Science Teachers Association  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://www.cascience.org/csta/conf_home.asp  
Cost $123  
Stipend?  
San Jose - This annual event is the premier annual professional development event for science teachers and educators in California. Conference events address all areas of science education, including life science, earth/space science, physical science, environmental science, literacy, English language development, and assessment.

10/24/2012  
Owl Pellets and Beyond - Classroom Kit Training  
California Academy of Sciences  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th  
Cost $15  
Stipend?  
Owl Pellets and Beyond - Revised! What do barn owls eat? Learn how to identify the skulls of prey found in owl pellets by using a simple dichotomous key. Students will love this simple discovery lesson that is appropriate for all ages. This activity follows the scientific process by creating a hypothesis, following a procedure, collecting data, and creating a graph to show the class results. A brand new board game that includes fun trivia focuses on the prey of barn owls.

10/27/2012  
Earth Science Advanced  
Resource Area for Teachers (RAFT)  
For Grades: 3rd;4th;5th;6th;8th  
http://www.raftbayarea.org/workshops  
Cost $20 for members; $35 for non-members  
Stipend?  
Advanced Earth Science: We will explore important earth science concepts and activities to teach them to your students. Subjects will include plate tectonic theory and how it helps explain how the Earth is always changing; maps of the Earth and California, pinpointing seismic activity and how they form our geography; and how earthquakes travel and tell us about the Earth’s interior. The Earth is always changing. INSTRUCTOR: Elizabeth Brooking is a teacher at Wilson Elementary. She is a long time RAFT member and an Innovation Fellow.
10/27/2012  Geology: Classroom Kit Training  California Academy of Sciences
For Grades:  6th;7th;8th;9th;10th;11th;12th
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.
After taking this workshop, you will be eligible to use the Geology Kit in your classroom.

10/27/2012  Edible Rocks  Resource Area for Teachers (RAFT)
For Grades:  4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.raftbayarea.org/workshops
Cost  $15 for members; $30 for non-members  Stipend?
Use candy bar cross sections to teach students in a "tasty" way how to develop descriptions for types of rocks and minerals. We'll also look real types of rocks and minerals to do the same in descriptions. Free handouts, materials, and candy bars . . . yummy, yum, yum!
INSTRUCTOR: Tom Gates has been an educator for over 40 years. He has taught secondary mathematics, and college astronomy courses. He was an administrator of the Space Science Center for Foothill/De Anza colleges and taught evening music courses (B.A. in Music Education) for colleges and other organizations. He was an educator for NASA, giving teacher workshops, classroom visits, and assembly programs for 17 years. Tom did workshops for RAFT while with NASA and upon retiring, came to work for RAFT in an outreach and workshop capacity.

10/25/2012 - 10/27/2012  California Agriculture in the Classroom Conference 2012  California Foundation for Agriculture in the Classroom
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.cfaictc.org/conference/
Cost  $250  Stipend?
In Sacramento - "From Stem to Core!" Sacramento and the surrounding counties feature a diverse array of agriculture production that attendees will experience and explore firsthand. Workshops, field trips, presentations, and Make 'n' Takes, focusing on current agricultural and educational trends, will be presented by agriculture and education experts. Participants will walk away with a plethora of resources and enthusiasm to bring back to their students to help them understand where their food and fiber comes from.

10/26/2012 - 10/28/2012  2012 California's Water Resources and Climate Change: Pacific Coast Institute  California Institute for Biodiversity
For Grades:  6th;7th;8th;9th;10th;11th;12th
http://www.calalive.org/professionalDevelopment.php
Cost  $200  Stipend?
October 26-28 & November 9-11 - Early-bird Registration Special $200 (Ends March 30, 2012 at 5:00pm). Regular Registration Fee $300. Join us along the Marin headlands as we conclude our transect of California. This final course will continue our exploration of water resources by looking at the Pacific Ocean and the effect climate change has on the ocean's ecosystems. We will pay close attention to marine ecology, marine chemistry, tide pools, local dairy and oyster farms, and local harbor seal populations. As a part of this course, you will partake in a team field investigation that looks in-depth at a topic that relates to California's water resources along the coast and climate change. With the help of NatureBridge and the California State Parks, our educational team will present these topics through a wide variety of hands-on activities, engaging investigations, multimedia simulations, and outdoor explorations. By participating in this program, you will receive up-to-date information that is California Science Standards-based for grades 6 through 12. We hope that at the end of this course you can give your students the knowledge necessary to understand climate change and how it is affecting California.

10/31/2012  Skulls: Study of Structure & Function - Kit Based Workshop  California Academy of Sciences
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th
Cost  $15  Stipend?
We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed:  9/14/2012  Professional Development
An animal skull can be an amazing resource for exploring natural history and practicing skills such as observation and interpretation. In this workshop, participants will investigate the skulls of seven Northern Californian mammals and learn some of the critical differences that distinguish herbivores, omnivores, and carnivores. Discover the significance of eye placement and learn to infer what animals eat from the shapes of their teeth.

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

**November 2012**

**11/3/2012**  
**Family Science Night: How to Plan and Facilitate a Successful Event for You**  
Resource Area for Teachers (RAFT)  
For Grades: K;1st;2nd;3rd;4th;5th;6th  
[http://www.raft.net/workshops/in-house](http://www.raft.net/workshops/in-house)  
**Cost** $25 for members; $40 for non-members  
**Stipend?**  
The first is a series of 5 successful Family Science Nights, Kaleidoscope focuses on color and light experiments to make science come "alive"! Learn how to plan, facilitate, staff, and fund a Family Science Night Event for your school using RAFT supplies and Activity Kits, as well as other inexpensive materials. The goal is for each child in attendance to take home a bag of experiments with ideas for further science exploration. You will make samples of all of the experiments (and a few alternates) so you can plan your own event!  
**INSTRUCTOR:** Kathleen J White is a RAFT volunteer and a kindergarten teacher at West Valley Elementary School in the Cupertino School District. As the lead science teacher for her school for the last 11 years, she has planned and facilitated 10 successful Family Science Night Events. The March 2012 Event served over 700 students and parent(s) over two nights.

**10/27/2012 - 11/3/2012**  
**Bay Area Science Festival 2012**  
Bay Area Science  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK  
[http://www.bayareascience.org/festival/](http://www.bayareascience.org/festival/)  
**Cost** FREE  
**Stipend?**  
Save the date for the 2012 festival – 10/27-11/3! We couldn’t be more thrilled to be back for another year. This year’s festival will feature over 60 events across the Bay Area. Many of your favorites from last year will be back including:  
- Bay Area Star Party  
- Science Crawl  
- Zombie Science NightLife  
- Discovery Days at AT&T Park  
- Discovery Days North Bay at Sonoma County Fairgrounds  
- Passport to Science – our new day of science hikes, tours, and adventures  
- Plus so many more!

**11/3/2012**  
**Climate Change Guaranteed: Ready, Set, Adapt**  
Farallones Marine Sanctuary Association  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
**Cost** FREE  
**Stipend?** $50 stipend per class  
Where: Romberg Tiburon Center, Tiburon, CA.  
Can species physiologically adapt? Move? How will habitats change and ultimately how will humans need to adapt?  
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.
Bay Area Science Festival 2012

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

Cost FREE

Stipend?

Save the date for the 2012 festival – 10/27-11/3! We couldn’t be more thrilled to be back for another year. This year’s festival will feature over 60 events across the Bay Area. Many of your favorites from last year will be back including:
Bay Area Star Party
Science Crawl
Zombie Science NightLife
Discovery Days at AT&T Park
Discovery Days North Bay at Sonoma County Fairgrounds
Passport to Science – our new day of science hikes, tours, and adventures
Plus so many more!

2012 Sacramento - San Joaquin Delta Ecology Institute

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

Cost $75

Stipend?

The California Delta is at the heart of the state’s water resources: transporting water from the mountain rivers into the Bay Area and pumps heading to Southern California. Our three-day institute will combine inquiry-based activities and water quality monitoring to show how these water resources as well as bird migration, fisheries, and local agriculture are being impacted by climate change. With the help of the East Bay Regional Park District, our educational team will get you hiking around the delta and out onto the water to thoroughly explore what makes this region unique to the state. We will provide you with resources geared for 6th through 12th grade classrooms that are California standards-based. Engage your students in the captivating world of the California Delta by teaching them how the water resources in this region are being affected by climate change and human impacts.

Plants, Carbon and Sustainability

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

Cost $15

Stipend?

NEW! Where do plants get their mass from and how does it enter their tissues? Come explore the role that plants play in our carbon cycle, and how they are linked to sustainability in our world. Using hands-on activities, and examining plants with microscopes we will discover the intricacies of plant life and its link to global climate change. This workshop supports curriculum taught in the Plants Student Lab for classes participating in the Rock Program, but can act as a standalone unit as well.

Notebooks and Integration

For Grades: K;1st;2nd

Cost $35

Stipend?

Wednesday November 7
Wednesday November 14, and
Wednesday November 28.

In order to participate, you must be able to attend all three session

NEW! Have you been interested in using science notebooks with your students looking for some effective strategies? Join us to explore the use of notebooks with little ones and try out integration in the form of drawing, graphing, counting, and story telling.

Science Fair Success

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

Cost $15 for members; $30 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: 9/14/2012 Professional Development 7
Most teachers will say that the hardest part about running a science fair is getting the students started; figuring out the topic and helping them turn the ideas into an effective project. In this workshop, you will work with a “science fair expert” to brainstorm ideas for science fair projects using RAFT materials. You will also get a multitude of science fair survival tools: time lines, resource books and web sites, with ideas on how to get funding for your fair and plenty of helpful tips for managing projects. Everything you need to run a successful science fair!

INSTRUCTOR: Heidi Black has been teaching for 20 years, including working as a naturalist at an outdoor environmental education camp, teaching high school biology and physics, and serving as Teacher in Residence at the Exploratorium. Heidi serves on the county science fair board and has spent the last 3 years as the science fair coordinator for the East Side Union High School District where she has been instrumental in creating a 1400-student district fair and in running a small fair at her son’s middle school.

11/10/2012 Lessons from the Ocean - FREE NatureBridge at Golden Gate
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.naturebridge.org/event/golden-gate/teacher-professional-development-golden-gate
Cost FREE Stipend? $100
Using ocean themes to improve science, math, and language arts skills. Workshops will be held at Pioneer East Meadow Picnic Area in Golden Gate Park. They are FREE and include take-away teaching toolkits. STIPENDS are available for teacher teams from the same school who attend two or more workshops.

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://learn.amnh.org/
Cost $495 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. Offerings are: Earth: Inside and Out, The Ocean System, Evolution, The Solar System, Water,

11/14/2012 Food Webs and Human Food Production California Academy of Sciences
For Grades: 4th;5th;6th;7th;8th
Cost $15 Stipend?
NEW! Understanding the living and non-living components of an ecosystem are essential for students to comprehend how food webs function. But, how does this concept relate to human food production around the world? In this workshop participants will examine how different environments are affected by food production through hands-on activities that explore patterns of energy flow. This workshop supports curriculum taught in the African Biomes Student Program for classes participating in the Rock Program, but can act as a standalone unit as well.

For Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.baesi.org/
Cost FREE Stipend?
Angela Hessler (Earth Science Department, Chevron Energy Technology Company), Ellen Metzger (SJSU/BAESI), and others. In this workshop, we’ll explore the changing world of energy, including timely topics such as alternative energy sources, hydrofracking and unconventional sources of oil and gas. This workshop will meet at Chevron, 6101 Bollinger Canyon Road, San Ramon, CA. If you need SJSU credit, you may combine any two sessions to earn 1 unit of Geology 104 for $50.

December 2012

12/1/2012 Project ASTRO: Galileoscopes Resource Area for Teachers (RAFT)
For Grades: 5th;6th;7th;8th;9th
http://www.raftbayarea.org/workshops
Cost $25 active Project ASTRO partners or RAFT members Stipend? $40 for non-members

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

Printed: 9/14/2012 Professional Development
This workshop is an opportunity to learn more about using the Galileoscope in your classroom. Through hands-on activities in light and optics, workshop participants will learn more about how telescopes work. Each teacher participant will receive a set of Galileoscopes for use in their classroom.

INSTRUCTOR: Brian Kruse is the Lead Formal Educator for the Astronomical Society of the Pacific, in San Francisco, CA.

12/1/2012  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.

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

12/8/2012  Our Changing Climate  NatureBridge at Golden Gate
For Grades:  5th;6th;7th;8th;9th;10th;11th;12th
Cost  FREE  Stipend? $100
Teaching basic climate science and empowering your students to take action. Workshops will be held at Pioneer East Meadow Picnic Area in Golden Gate Park. They are FREE and include take-away teaching toolkits. STIPENDS are available for teacher teams from the same school who attend two or more workshops.

12/8/2012  Exploring the Solar System:  Resource Area for Teachers (RAFT)
For Grades:  2nd;3rd;4th;5th
http://www.raftbayarea.org/workshops
Cost  $25 for members; $40 for non-members  Stipend?
Explore the solar system with RAFT kits and idea sheets, NASA publications, and ASP (Astronomical Society of the Pacific) activities. Assemble your own activity kits and be ready to teach on Monday. Literature-based activities will be shared and a curriculum binder will be provided. This workshop will address the current science standards and introduce the proposed Next Generation Science Standards

INSTRUCTOR: 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).

12/8/2012  Fun with Flying Things  Resource Area for Teachers (RAFT)
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK
http://www.raftbayarea.org/workshops
Cost  $15 for members; $30 for non-members  Stipend?
We’ll learn to make a number of paper airplanes; the normal darts all the way to exotic flying cylinders. And explore ways to learn how engineers develop better products. We’ll also look at other flying things to make student learning more engaging.

INSTRUCTOR: Tom Gates has been an educator for over 40 years. He has taught secondary mathematics, and college astronomy courses. He was an administrator of the Space Science Center for Foothill/De Anza colleges and taught evening music courses (B.A. in Music Education) for colleges and other organizations. He was an educator for NASA, giving teacher workshops, classroom visits, and assembly programs for 17 years. Tom did workshops for RAFT while with NASA and upon retiring, came to work for RAFT in an outreach and workshop capacity.

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

Printed:  9/14/2012  Professional Development  9
January 2013

1/5/2013  Into the Redwood Forest - Park as Classroom Workshop  Muir Woods National Monument
For Grades:  3rd;4th;5th
http://www.nps.gov/goga/forteachers/elementary_01.htm
Cost  FREE  Stipend?
Required in order to take part in the parks free fieldtrip program

1/10/2013  Sensible Habitats - Park as Classroom Workshop - reg 10/14/11  Fort Point National Historic Site
For Grades:  K;1st;2nd
http://www.nps.gov/goga/forteachers/elementary-02.htm
Cost  FREE  Stipend?
Required in order to take part in the parks free fieldtrip program

1/16/2013  Weather and Climate - Workshop Series  California Academy of Sciences
For Grades:  3rd;4th;5th;6th;7th;8th
Cost  $35  Stipend?
Wednesday January 16,
Wednesday January 23, and
Wednesday January 30.
In order to participate, you must be able to attend all three sessions.  Are you interested in learning effective ways to teach the complexity of our atmosphere? Join us for activities and discussions that will help make weather and climate relevant to you and your students. Explore Bay Area-specific examples of weather phenomena and climate patterns.  We will also address climate change and ways to approach this topic with students.

1/16/2013  Outdoor School Winter Open House  Walker Creek Ranch
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Cost  FREE  Stipend?
The Marin County Outdoor School at Walker Creek Ranch is dedicated to helping elementary school teachers satisfy their educational goals through quality instruction within a special learning environment that inspires and motivates students to achieve an appreciation of the natural world. Using principals of thematic instruction, the Outdoor School enhances a students critical thinking, processing, and socialization skills.

1/18/2013  California P K 1 Conference in San Jose  California Kindergarten Association
For Grades:  K;1st;PK
http://www.californiakindergartenassociation.org/2013-p-k-1-conference/
Cost  $190  Stipend?
Hyatt Regency Santa Clara - January 18-20, 2013

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

Seminars on Science - Online Courses for Educators

American Museum of Natural History

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

Fresno Pacific 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

National Teacher Enhancement Network

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

PBS

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.
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.

Banana Slug String Band

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

Bay Model Visitor Center

Professional Development at your School
http://www.calacademy.org
Many different workshops are available to come to your school for professional development. Examples are: Sketching and Journal Keeping for the Science Classroom, Owl Pellets and Beyond, Herbivore, Omnivore, Carnivore: A study of Structure and Function

California Academy of Sciences

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)

Community Resources for Science

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

Friends of the Estuary

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

Kids for the Bay
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
http://www.kqed.org/ednet/
KQED offers a wide range of professional development workshops focusing on the use of video in the classroom. They can focus on curriculum areas of your choice. Workshops can focus on making videos in the classroom or how to effectively use existing video and web resources in the classroom

Customized Workshop  
Life Lab Science Program
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
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
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
http://www.randallmuseum.org/
Project WET (water resources stewardship), Project WILD & Aquatic WILD (wildlife), Project Learning Tree (forests and trees), and Population Education (population study, exponential growth, and demographics) workshops emphasizes hands-on activities and integrated teaching strategies consistent with the New Science Standards.

RAFT Outreach Workshops  
Resource Area for Teachers (RAFT)
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

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

Printed: 9/14/2012 Professional Development 2
Teacher Training/Team Building - Physical Sciences  
Rock-It Science  
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  
San Francisco Zoo  
http://www.sfzoo.org

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

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

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

Private Workshops  
The Watershed Project  
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!  
Tom Snyder Productions  
http://www.tomsnyder.com

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

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

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
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 - October 7, 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 Area Science
http://www.bayareascience.org/

Bay Area Science Festival 2012
Save the date for the 2012 festival – 10/27-11/3! We couldn’t be more thrilled to be back for another year. This year’s festival will feature over 60 events across the Bay Area. Many of your favorites from last year will be back including:
Bay Area Star Party
Science Crawl
Zombie Science NightLife
Discovery Days at AT&T Park
Discovery Days North Bay at Sonoma County Fairgrounds
Passport to Science – our new day of science hikes, tours, and adventures
Plus so many 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.

California Coastal Commission, Public Education Program
San Francisco http://www.coastforyou.org

California: Coastweeks Sept. 15 thru Oct. 7

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 9/14/2012 Temporary Exhibits
Each fall, people across the country participate in COASTWEEKS, a celebration of our coastal and water resources. In 2012 the California celebration takes place from September 15 to October 7, kicked off by the 28th Anniversary of California Coastal Cleanup Day! The California Coastal Commission has compiled a calendar of over 300 coastal and water-related events taking place in 38 counties. Please visit the calendar at www.coastforyou.org and find just the right activity for you, your friends, and your family to celebrate our coast and inland waterways!

**Children's Discovery Museum of San Jose**
San Jose http://www.cdm.org

**Adventures with Clifford The Big Red Dog**
(May 19 - October 7, 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.

**Exploratorium**
San Francisco http://www.exploratorium.edu

**Exploratorium Closes its Doors at the Palace of Fine Arts - January 1, 2013**
January 1, 2013 The Exploratorium closes its doors at the Palace of Fine Arts in preparation for their grand opening in their new location on the piers. Look for opening festivities at the new Exploratorium at Piers 15 & 17 in spring of 2013.

**The Exploratorium Memory Wall**
(July 3, 2012 — January 3, 2013) The Memory Wall is an installation-invitation to the public to take a look back at how the Exploratorium has been a part of our personal histories. Functioning as a tribute that blends traditional storytelling with the pin board concept, visitors are invited to write down memories of visits to the Exploratorium, going all the way back to its opening in 1969. From birthday parties in the Tactile Dome, funny prom moments under the Skylight, and most importantly, great aha moments of science understanding inspired by an exhibit, these stories will be posted for others to read and rekindle their own distant and new memories. The Memory Wall will exist both on the museum exhibition floor, and online, from July 3, 2012 through January 1, 2013.

**Field Trips Schedule: 2012–2013**
In 2013, the Exploratorium is moving from the Palace of Fine Arts to Pier 15, on San Francisco’s historic Embarcadero. Located on the waterfront, just a 10-minute walk from the landmark Ferry Building, the new nine-acre campus will be easily accessible by visitors coming from every part of the Bay Area—and beyond. To accommodate the move, the field trips schedule has been modified (see below). Beginning in the fall of 2013, the Exploratorium will continue providing excellent experiences and resources for school field trips in our exciting new location, featuring triple the exhibition space.

Current location: Palace of Fine Arts
May 15, 2012: Field Trip Reservations Open for Fall 2012
October 2, 2012—December 14, 2012: Open for Field Trips
Please note: As the Exploratorium prepares for the move to Pier 15, some exhibits are being refurbished and are temporarily off the floor. When you arrive, feel free to ask an Explainer if particular exhibits are available.

No Field Trips

New location: Pier 15
May 1, 2013: Field Trip Reservations Open for 2013–2014 School Year
October 1, 2013: Open for Field Trips
(Regular school-year schedule resumes for field trips.)

**Monterey Marine Sanctuary Exploration Center**
Santa Cruz http://montereybay.noaa.gov/vc/sec/welcome.html
**Marine Sanctuary Exploration Center - Grand Opening**

Opening at the end of July 2012. 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.

**Oakland Museum**

Oakland  http://www.museumca.org

**Days of the Dead: Forgotten Stories, Remarkable Lives**

Every year during Days of the Dead we honor loved ones that have passed away and we pay tribute to their lives. In 2012, OMCA celebrates the 18th annual Días de los Muertos exhibition, honoring the lives and stories of extraordinary people. The exhibition celebrates local heroes and heroines that may not have made it to history books, but have contributed to the betterment of their communities and have made an impact on our lives. Through altars and installations, the exhibition pays tribute to Californians in the recent and more distant past, and unveils how their remarkable experiences compose the narrative of change and the ever-evolving story of California.

**SF Botanical Garden & Strybing Arboretum**

San Francisco  http://www.strybing.org

"Drawing Nature" art exhibit

(September 5 – December 30, 2012) – Celebrate fall with the Sonoma County Colored Pencil Artists at a special reception Thursday, September 6 at the Helen Crocker Russell Library of Horticulture. The exhibit focuses on the changing colors of falling leaves, fruit and flowers. All artwork in the exhibition is for sale, with a portion of the proceeds benefitting the Library.

**The Tech Museum of Innovation**

San Jose  http://www.thetech.org

**MythBusters: The Explosive Exhibition**

(Exclusive Members Preview Friday, October 12 - October 13, 2012 through January 6, 2013!)

Discovery Channel's Emmy®-nominated series, MythBusters, comes to life to uncover truths behind popular myths by mixing scientific method with gleeful curiosity and old fashioned ingenuity. MythBusters: The Explosive Exhibition creates a dozen hands-on, interactive experiences for guests of all ages by combining popular scientific facts with innovative, family-friendly displays. Members receive up to a 40% discount. Save even more by purchasing your tickets before September 1.
Inside the Fall 2012 CRS Science Resource Guide

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