Science Resource Guide - Winter 2013

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

The May 2013 issue of the CRS Resource Guide will only be sent electronically.

Have you been receiving our monthly eNewsBlasts? If not, it means we either don’t have your active email address. (You can send it to CRS@crscience.org) or the eNewsBlasts has been going to your spam folder. Please make sure that you have Resources_for_Science@mail.vresp.com as a “safe sender” in your email account.

Join CRS at the Crucible, March 21

Our spring Field Trip for Teachers will be at The Crucible (located two blocks from the West Oakland BART Station) on March 21, 2013 from 4:30-6:30pm. The Crucible (thecrucible.org) is a non-profit educational facility that fosters a collaboration of Arts, Industry and Community. They offer classes to schools and the general public that support learning in science and the arts. The Crucible is really easy to get to.

We will have food and wine available while we network and learn about The Crucible and other science programs around the Bay. Talk to some of last years CRS Science Super Star participants and learn from our own BASIS volunteers.

RSVP to Corinn at CRS@crscience.org or learn more about the event and RSVP at http://crscrucible.eventbrite.com

Find this guide online at www.crscience.org/ResourceGuideWinter13.pdf

Cam, the Curious Chameleon, in your classroom!

Have you met Cam? Cam, the Curious Chameleon loves science and learning all kinds of new things. Cam likes to visit laboratories, science field stations, and classrooms to see what discoveries are happening! Classes can color in their very own Cam and use it as a tool to convey something they learned about science, or perhaps ask a question they have for a scientist.

BASIS volunteer groups have already photographed or videotaped Cam’s visits to their labs. Cam has visited a 3D printer, a molecular & cell biology lab, and even learned about physical and chemical changes with a BASIS group. You can see all of Cam’s adventures here: www.crscience.org/programs/caminaction

Curious Cam is a wonderful way to link scientific inquiry across the curriculum with reading, writing, and oral discourse. Cam serves as a friendly vehicle for exploration and getting kids excited about science learning. To get started and print out Cam and the full set of directions go to www.crscience.org/CamAdventures

Is your class full of Science Super Stars?

March 31, 2013 is the deadline to submit your completed form letting us know about the great science you and your students have been doing this year! Remember to send in some documentation too (samples of student work, or photos, or even a short video clip!).

Classes -- and whole schools -- will earn prizes and recognition as role models in science teaching and learning.

Find Classroom and Whole School Challenge forms at http://www.crscience.org/sciencesuperstarprogram

Congratulations to Tracy Dordell and her class at New Highland Academy in Oakland for submitting this year's first completed Science Super Star Challenge form!
Next Generation Science Standards and Common Core Connections

Now that California is implementing the new Common Core Math and English Language Arts standards, it is exciting to see the ways that science investigations will add enriching experiences to connect learning (content and skills) across the curriculum. Next up in the standard overhaul process are the Next Generation Science Standards. The most recent draft was just released and can be found at www.nextgenscience.org.

Remember that CRS is here to help you find the books, field trips, writing prompts, activities, and professional development you need to bring science alive AND address language arts and math standards in the process! We're adding resources to our website every month. Check out the newest info at www.crscience.org/educators/lessonplanningtools.

NGSS and Common Core Resources

To learn more about the NGSS and what that will mean for your classroom, Check out the wealth of resources at the NSTA www.nsta.org/about/standardsupdate/

Want someone to come to your school to work with your staff? FOSS is offering professional development workshops to school and districts called “Common Core and FOSS: Building ELA Skills through Active Science.” Contact Joanna Totino 510-643-3478 jtotino@berkeley.edu for more details.

CRS has compiled a list of quality fiction and non-fiction books that will support science at your grade level. We’ve also included links to more literature connections. http://www.crscience.org/educators/scienceliterature

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

http://www.sharenylesson.com/ allows you to search for and share lessons that integrate common core curriculum goals.

Don’t forget to check out the CRS website for even more resources while planning your science lessons. http://www.crscience.org/educators/foreducators

Join us for a day in the wine country with a tour of Oliver Ranch!

Saturday, May 11, 2013 - Approximately 7:30 am to 4:30 pm

We’ll begin the day with a 2.5 hour tour (outdoor hike) of the spectacular Oliver Ranch to view art installations located on the property. (http://www.oliverranchfoundation.org/) Then we’ll stop by a local winery to enjoy lunch and wine tasting. Don’t miss out on this chance to visit one of the Bay Area’s nature and art gems!

This day of art and science is $150 per person. Charter bus transportation from a central meeting point is provided. For more information about this tour, please check the http://www.crscience.org/news/oliverranch

To reserve your spot for this special day

• call 510-527-5212
• mail a check (with attendee names and emails) to Community Resources for Science ~ 1611 San Pablo Ave, Suite 10 B ~ Berkeley, CA, 94702
• Email giving@crscience.org.

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.
Program Deadlines

February 2013

2/1/2013  2013 Summer Teacher Institute Workshops - Applications Available
            Exploratorium
            http://www.exploratorium.edu/teacher-institute/summer

2/1/2013  Registration for FALL 2013 workshops Begins
            Life Lab Science Program
            http://www.lifelab.org/for-educators/fieldtrips/

2/15/2013  Earthwatch Institute Educator Fellowships
            Earth Watch Institute
            http://www.earthwatch.org/edopp

March 2013

3/1/2013  Summer Program Application Deadline
            Forestry Institute for Teachers
            http://www.forestryinstitute.org/

3/1/2013  Educator at Sea - Deadline to apply
            Ocean Exploration Trust

3/15/2013  Teacher Institute on Science and Sustainability - Deadline to apply for July Institute
            California Academy of Sciences
            http://www.calacademy.org/teachers/tiss/

3/15/2013  Priority Deadline for Overnight camp sign-ups 2013-14
            Walker Creek Ranch
            http://www.walkercreekranch.org/oe.htm

3/17/2013  The Edible Schoolyard Summer Academy - Deadline to apply
            Edible Schoolyard
            http://edibleschoolyard.org/academy

            Center for Science Education-UC Space Science Lab
            http://lasp.colorado.edu/home/maven/files/2013/01/MAVEN_one_page.pdf

April 2013

4/1/2013  Reservations BEGIN for 2013-14 School year
            NatureBridge at Golden Gate
            http://www.naturebridge.org/school-group-field-science-golden-gate

May 2013

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

Printed  1/30/2013
Applications due for living history overnight programs 2013-14 school year
Angel Island Association
http://angelisland.org/history/angel-island-state-park-living-history-program/

Begin Scheduling Field Trips for 2013-14 School Year
Exploratorium
http://www.exploratorium.edu/

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

Apply for Fall 2013 DataStreme Atmosphere Science Education Course
National Oceanic and Atmosphere Administration
http://www.ametsoc.org/amsedu/DataStremeFrames.html

Lottery Deadline for Summer Fieldtrips
East Bay Regional Park District
http://www.ebparks.org/activities/educators/trips

Fall 2013 Program Application Deadline
Slide Ranch
http://www.slideranch.org

Project Astro Application Deadline
Astronomical Society of the Pacific
http://www.astrosociety.org/education/astro/bayarea/bay.html
Teacher Grants: Specific Deadlines

February 2013

2/1/2013  Grants For Grades 6 - 12
Toshiba America Foundation
http://www.toshiba.com/taf/612.jsp
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?

$5000 +

2/1/2013  Learning & Leadership Grants
The NEA Foundation
http://www.neafoundation.org/pages/learning-leadership-grants/
Grant supports public school teachers, public education support professionals, and/or faculty and staff in public institutions of higher education for one of the following purposes:
• Grants to individuals fund participation in high-quality professional development experiences, such as summer institutes or action research; or
• Grants to groups fund collegial study, including study groups, action research, lesson study, or mentoring experiences for faculty or staff new to an assignment.

$2000-5000

2/1/2013  Student Achievement Grants
The NEA Foundation
http://www.neafoundation.org/pages/nea-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.

$5000

2/1/2013  American Honda Foundation Grant
American Honda Foundation
Supports youth education with a specific focus on the STEM (science, technology, engineering and mathematics) subjects in addition to the environment.

$20,000-60,000

2/4/2013  Ocean Leadership Awards
Quick Science
http://www.usc.edu/org/quickscience/oceanleadership.html
Formal Teaching Excellence Award – for the teachers who are active in developing and implementing innovative and effective approaches to learning and teaching of ocean sciences;

2/13/2013  Amgen Award for Science Teaching Excellence (AASTE)
Amgen Foundation
http://wwwext.amgen.com/citizenship/aaste.html
34 science teachers will be chosen for the award. Winners from California, Colorado, Kentucky, Massachusetts, Puerto Rico, Rhode Island, Washington and Canada will receive an unrestricted cash award of $5,000 and the recipient’s school will receive a restricted grant of $5,000 USD for the expansion or enhancement of a school science program, for science resources, or for the professional development of the school’s science teachers.

$5000 for Teacher, $5000 for School

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

Printed: 1/30/2013


2/14/2013  Elmer’s Teacher’s Tool Kit - applications available  
Kids In Need Foundation  
Up to $500  
http://kinf.org/elmers/  
You can apply for an Elmer’s Teacher Tool Kit grant that can range from $100 to $500. The grants will be given to teachers who wish to conduct classroom projects selected from a catalog of more than 500 projects. This year, approximately 250 grants sponsored by Elmer’s will be provided to teachers nationwide for projects to be completed during the upcoming 2012-2013 school year.

2/15/2013  NAREN Grants for Program Support  
National At-Risk Education Network  
$250  
http://www.atriskeducation.net/naren-grants/  
The grant is a needs-based grant. 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.

2/15/2013  Lowe’s Toolbox for Education Grant Opens  
Lowe’s Charitable & Education Foundation  
$5000  
http://www.toolboxforeducation.com/  
This year the foundation seeks ways to provide the tools that help educators and parent groups through today's challenging times efficiently, while providing the greatest impact, with basic necessities taking priority. Please keep this focus in mind as you apply.

2/28/2013  Ultimate Cool Science Day Sweepstakes  
Discovery Education  
Free programming  
http://www.siemensscienceday.com/enter_sweepstakes.cfm  
Can submit and entry on-line everyday for this sweepstakes. Imagine a day of Discovery at your school complete with engaging science demonstrations, hands-on activities and thrilling special surprises. Enter often to improve your chances of winning the Ultimate Cool School Science Day! For your school.

2/28/2013  SIGMS Technology Innovation Award  
International Society for Technology in Education  
$1300 plus travel  
http://www.iste.org/membership/awards-recognition/sig-media-specialist-technology-innovation-award  
This award is presented to two teams of a school librarian and collaborating teacher from one primary school, and one secondary school, each year. Teams have planned a collaborative project involving technology, received support from administration, and successfully executed the project with supportive data and evidence for others to replicate the project. Award winners will receive:  
* Recognition at ISTE's annual conference and exposition. Complimentary registration to ISTE's annual conference and exposition (two per team).  
* Up to $1,000 travel stipend for ISTE's annual conference and exposition (one per team).  
* A $1,000 cash award payable to the school media center (one per team).  
* A $300 professional library from ISTE (one per team).  
* A one-year ISTE membership (two per team).  
* Recognition in ISTE publications, in press releases to local media, and on iste.org.

March 2013

3/5/2013  Save the World Challenge  
Siemens  
$5000 for school - prizes for students  
http://www.wecanchange.com/  
The Siemens We Can Change the World Challenge offers students the opportunity to use science, math, and reading/language arts concepts and skills to create sustainable, reproducible environmental improvements. For example, students utilize their comprehension skills by reading and summarizing non-fiction texts. Then they use their writing skills to write an action plan to solve a local environmental issue based on what they have learned.

3/7/2013  Mantis Tiller Awards

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

Printed: 1/30/2013  Teacher Grants
KidsGardening.org

$350 value in garden equipment

http://grants.kidsgardening.org/2013-mantis-tiller-award

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

3/15/2013 Braimayer Foundation Letter of Inquiry

The Braimayer Foundation

http://www.braithmayerfoundation.org/guid.cfm

$35,000

Grants for: curricular and school reform initiatives; and preparation of and professional development opportunities for teachers, particularly those whom encourage people of high ability and diverse background to enter and remain in K-12 teaching.

3/15/2013 Braimayer Foundation $10,000 Grant

The Braimayer Foundation

http://www.braithmayerfoundation.org/guid.cfm

$10,000

Grants for: curricular and school reform initiatives; and preparation of and professional development opportunities for teachers, particularly those whom encourage people of high ability and diverse background to enter and remain in K-12 teaching.

3/18/2013 Captain Planet Foundation Grant

Captain Planet Foundation

http://captainplanetfoundation.org/apply-for-grants/

$250-2,500

Generally this deadline is for Fall and Winter 2013 project. 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)

3/31/2013 CRS Science Super Star Challenge

Community Resources for Science

http://www.crsociety.org/sciencesuperstarprogram

Take the Challenge as a classroom OR Take the Challenge as a whole school! 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 their 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!

April 2013

4/12/2013 Doug Prouty Classroom Grant Program

East Bay Computer Using Educators

https://sites.google.com/a/eastbaycue.org/grant-scoring/

up to $1500

The Doug Prouty Classroom Grant Program seeks to fund K-12 classroom teachers who want to implement creative, innovative, and student-centered uses of technology in the core curriculum. The grant seeks to fund specific, curriculum-based activities/projects that a classroom teacher wishes to implement in his/her classroom.

4/15/2013 Teacher Development Grants

McCarthey Dressman Education Foundation

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

Printed: 1/30/2013  Teacher Grants
<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
<th>Website/Link</th>
<th>Amount/Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>$10,000 per year up to 3 years</td>
<td>Provides funding to individuals or small teams of teachers in the formation and implementation of groundbreaking k-12 classroom instruction. The grants provide opportunities for teachers to integrate fresh strategies that encourage critical inquiry and to observe their effects on students</td>
<td><a href="http://www.mccartheydressman.org/teacher.html">http://www.mccartheydressman.org/teacher.html</a></td>
<td></td>
</tr>
<tr>
<td>4/22/2013</td>
<td>Green Your School&lt;br&gt;DoSomething.org</td>
<td><a href="http://www.dosomething.org/awards">http://www.dosomething.org/awards</a></td>
<td>$5000 grand prize. $1000 for 4 others&lt;br&gt;Register your school to take part in the challenge! Get your friends to sign up too. Browse projects ideas for your school to tackle to increase recycling, save energy, promote green agriculture, and more! Report back on your completed projects to be judged by our panel of celebrity and expert judges! Bring the challenge home! You don’t have to just green your school, you can green your home too!</td>
</tr>
<tr>
<td>4/25/2013</td>
<td>Grants for Berkeley USD only&lt;br&gt;In Dulci Jubilo</td>
<td><a href="http://www.indulcijubilo.org/idjapplication.html">http://www.indulcijubilo.org/idjapplication.html</a></td>
<td>$500-10,000&lt;br&gt;In Dulci Jubilo is a non-profit foundation established in 1978 to enhance the quality of life in the Berkeley community by encouraging, inspiring, instructing and helping young people enrolled in Berkeley's pre-school, primary and secondary schools to develop, during their formative years, values beneficial to the community.</td>
</tr>
<tr>
<td>4/30/2013</td>
<td>Environmental Education Grants&lt;br&gt;The Lawrence Foundation</td>
<td><a href="http://www.thelawrencefoundation.org/grants/">http://www.thelawrencefoundation.org/grants/</a></td>
<td>$5000&lt;br&gt;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.</td>
</tr>
<tr>
<td>May 2013</td>
<td>The Presidential Awards for Excellence in Mathematics and Science Teaching - Secondary&lt;br&gt;The Presidential Awards for Excellence in Mathematics and Science Teaching</td>
<td><a href="http://www.paemst.org/controllers/home.cfc?method=view">http://www.paemst.org/controllers/home.cfc?method=view</a></td>
<td>$10,000 and trip to Washington DC&lt;br&gt;The Presidential Awards for Mathematics and Science Teaching were established in 1983 by an Act of Congress and are administered for the White House by the National Science Foundation. Each year the program recognizes outstanding mathematics and science teachers from across the United States and four U.S. jurisdictions for their contributions in the classroom and to their profession. In addition to honoring individual achievement, the goal of the Awards is to expand and exemplify the definition of excellent science and mathematics teaching. Awardees serve as models for their colleagues, inspirations to their communities, and leaders in the improvement of mathematics and science education. Alternate years for elementary and secondary</td>
</tr>
<tr>
<td>5/1/2013</td>
<td>Outstanding Earth Science Teacher Program&lt;br&gt;National Association of Geoscience Teachers</td>
<td><a href="http://www.nagt.org/nagt/programs/oest.html#nomination">http://www.nagt.org/nagt/programs/oest.html#nomination</a></td>
<td>$1500 value&lt;br&gt;Outstanding Earth Science Teacher (OEST) awards are given for &quot;exceptional contributions to the stimulation of interest in the Earth Sciences at the pre-college level.&quot; Any teacher or other K-12 educator who covers a significant amount of earth science content with their students is eligible. Ten national finalists are selected, one from each NAGT regional section. Individuals may apply themselves or nominate a colleague for the award.</td>
</tr>
<tr>
<td>5/1/2013</td>
<td>Ocean Guardian School Grant&lt;br&gt;National Marine Sanctuaries</td>
<td><a href="http://sanctuaries.noaa.gov/education/ocean_guardian/welcome.html">http://sanctuaries.noaa.gov/education/ocean_guardian/welcome.html</a></td>
<td>$2,000-5,000</td>
</tr>
</tbody>
</table>

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Applications are reviewed based on five criteria, each criteria weighted equally:

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

5/1/2013  American Honda Foundation Grant
American Honda Foundation
$20,000-60,000  http://corporate.honda.com/americaphilanthropy.aspx?id=ahf
We support youth education with a specific focus on the STEM (science, technology, engineering and mathematics) subjects in addition to the environment.

5/15/2013  The Richard C. Bartlett Environmental Education Award - verify date
National Environmental Education Foundation
$5000  http://www.neefusa.org/bartlettaward.htm
The Richard C. Bartlett Environmental Education Award is awarded annually to an outstanding educator who has successfully integrated environmental education into his or her daily education programs. The award is given to an educator who can serve as an inspiration and model for others.

5/15/2013  The CSTA Future Science Teacher Award
California Science Teachers Association
Recognition  http://www.cascience.org/csta/programs_奖项.asp
recognizes college students who demonstrate an interest in and commitment to science education through volunteer, teaching, and professional organization activities and who show promise to become outstanding science educators.

5/15/2013  The Margaret Nicholson Distinguished Service Award
California Science Teachers Association
Recognition  http://www.cascience.org/csta/res_奖项.asp
The Margaret Nicholson Distinguished Service Award honors an individual who has made a significant contribution to science education in the state and who, through years of leadership and service, has truly made a positive impact on the quality of science teaching.
Teacher Grants: Rolling or Continuous Deadlines

Teacher wishlist

Adopt-A-Classroom Grants
Adopt-A-Classroom
http://www.adoptaclassroom.org
Register your public school classroom online. This site pairs you with people who want to give money to your classroom to support your teaching.

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

discount bus rental rate

Black Tie Community Bus
Black Tie Transportation
http://www.blacktietrans.com/fleet.php#bus
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
http://computersforlearning.gov/
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
http://www.donorschoose.org/
Teachers describe classroom needs. Contributors decide where they want to put their money. Many corporations including Disney and Chevron are now using DonorsChoose.org as the way they give away money to education.

$500

Do Something Seed Grants
DoSomething.org
http://www.dosomething.org/grants/seed-grants

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

Printed: 1/30/2013  Teacher Grants - Rolling Deadlines
Register your school to take part in the challenge! Get your friends to sign up too.
Browse projects ideas for your school to tackle to increase recycling, save energy, promote green agriculture, and more!
Report back on your completed projects to be judged by our panel of celebrity and expert judges!
Bring the challenge home! You don’t have to just green your school, you can green your home too!

discounted bus

Parks Express Transportation Services
East Bay Regional Park District
http://www ebparks.org/activities/educators/trips#parkex
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.

Varies
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

$500-$5000
The LEGO Children’s Fund
LEGO Children’s Fund
http://www.legochildrensfund.org/Guidelines.html
Areas of support: 1) Early childhood education and development that is directly related to creativity. 2) Technology and communication projects that advance learning opportunities Awarded quarterly. Can NOT use funds to buy LEGOS. See website for more details.

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 1/30/2013 Teacher Grants - Rolling Deadlines
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.

Bus Transportation Scholarship for Oakland and Richmond
Oakland Museum
A limited number of scholarships are available and are awarded based on these criteria:
• Your school must be in the Oakland Unified School District (includes charter schools) or a Richmond public school.
• At least 70% of students at the school must qualify for the free or reduced lunch program.
Please note:
• One scholarship per teacher each school year.
• Scholarships are awarded to classrooms on a first-come, first-served basis.
• Teachers who qualify will receive a Bus Transportation Authorization, with a scheduling code.
• Teachers will contact the bus company directly to book the transportation, using the code as authorization.
The Museum will be billed for the bus, so no OUSD purchase order will be necessary.

$1000 for fieldtrips

Excursion Grant
Philanthropic Ventures Foundation
http://venturesfoundation.org/programs/teacher-grants/excursion-grants-program
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.

up to $500

Science Grant
Philanthropic Ventures Foundation
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.

free science boards and more

Science Project Support Application
Synopsys Outreach Foundation
http://www.outreach-foundation.org/cgi-bin/other_cc1.cgi?c=Alameda

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

Printed: 1/30/2013  
Teacher Grants - Rolling Deadlines
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.

**Grants for Teachers**

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

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

**$5000**  
**Education Grants**  
**Wells Fargo Foundation**  
https://www.wellsfargo.com/about/charitable/ca_guidelines  
Rolling Deadline. San Francisco Bay Region accepts grant proposals from January through October 31st. Supports educational programs promoting academic achievement by low- to moderate-income students in the key areas of: Math and science; Literacy; History of the American West

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

Printed: 1/30/2013
Temporary & New Science Exhibits Around the Bay Area

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

Once Upon a Time...Exploring the World of Fairy Tales
(December 15 - May 12) Once Upon a Time...Exploring the World of Fairy Tales is the first nationally touring exhibit devoted exclusively to fairy tales and the breadth of their cultural significance. Each fairy tale was carefully chosen because of its impact and reach or because it allows a window into another time and culture. The tales include: Anansi and the Talking Melon, Beauty and the Beast, Cinderella, The Elves and the Shoemaker, Jack and the Beanstalk, Lon Po Po, and Thumbelina. The unique and educational exhibit focuses on the power and significance of fairy tales throughout history and from around the world. Each tale is brought to life with its own largescale environment and interactive components.

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

Reflections on Water: Marin Watershed Magic Creekwalker
(January 15 – February 23, 2013) - In the Gallery - A photographic exhibition celebrating the life and beauty of Marin County creeks. The photographer, Sue Mace, the Creekwalker, captures the rippling, flowing, gushing and swirling of streams, rivulets and pools – even drops of fresh water. Not typical waterscapes seen from afar, these pictures offer a right-now visceral experience for the viewer because Creekwalker shoots from inside the creeks, primarily while exploring the stream beds on foot.

Children's Creativity Museum (formerly Zeum)
San Francisco http://creativity.org/

The World Through Children's Eyes
(December 22, 2012 through April 22, 2013) Experience over 100 pieces of artwork created by children from around the world. This exhibit, on loan from the International Museum of Children’s Art in Oslo, Norway, aims to promote insight and understanding of children and youth art and culture from various parts of the world. The exhibition highlights children’s various creative resources; what restrains their harmonious and dynamic development, what generates irritation and passive attitudes towards society and other people, and what inspires, stimulates and gives meaning to life.

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

Grand Opening at Pier 15 on the Embarcadero
April 17, 2013 is the official Grand Opening of the Exploratorium in its new home at Pier 15 on the Embarcadero. Field Trips for schools do not resume until October 2013.

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

African American Inventors
(February 1 – March 30, 2013) This exhibit will highlight a selection of the many contributions that African-American inventors and scientists have made to American society. The featured inventors are credited with the creation of items we see around us every day such as the traffic light, the elevator, the fountain pen, and much more. Historical and contemporary inventors will be represented.

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
60 Years of Children’s Art
April 16 – September 1, 2013

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

Run, Jump, Fly & Spin
(January 19–May 5, 2013) Become a Real Life Action Star!
Featuring the theme of action adventures popular in children’s books and movies, Run! Jump! Fly! Adventures in Action inspires young people to get physically active. The exhibit invites visitors to step into scenes right out of action adventure stories and jump into action star training play activities that build strength, coordination, balance and endurance. Visitors climb a canyon wall, balance on a "snow" or "surf" board, pedal "flycycles" and practice kung fu stances. The exhibit features four adventure scenes, an Action Star Training Center and a Toddler Pyramid.

National Environmental Education Foundation
Washington http://www.neefusa.org/

Environmental Education Week
(April 14-20, 2012) National Environmental Education Week (EE Week) is the largest organized environmental education event in the United States. EE Week increases the educational impact of Earth Day by creating a full week of educational preparation, learning, and activities in K-12 classrooms, nature centers, zoos, museums, and aquariums. By participating in EE Week, you encourage your students to make a difference in their schools, homes, and communities!

Oakland Museum
Oakland http://www.museumca.org

we/customize
Inspired by maker culture, the experimental, participatory, process-oriented outreach project and exhibition we/customize includes multiple phases from taking OMCA outside its walls, inviting the public to participate in creative activities and demonstrations to engaging visitors in the gallery installation process. The project culminates in an exhibition exploring the many ways people customize objects in their daily lives and the communities that participate in the culture of modification. (through May 26, 2013) Participants upload and view their own creations on the we/customize Tumblr and flickr sites, and provide valuable feedback which helps shape the next phase of the project.

Natural Sciences Hall Re-Opens
(Opens Late Spring 2013) - The focus of the new gallery is on California's unique status as a region of extreme biological and geological diversity—a global biodiversity "hotspot"—which harbors the nation's highest species' richness, as well as some of the most imperiled habitats on the planet. In addition to its rich diversity, part of what makes California a "hotspot" is the human population pressures that have rendered it one of the most ecologically degraded states in the country. In order to protect our natural environments, we first must encourage people to see themselves and their communities within the natural world. Therefore, the goal for the new gallery is to encourage a compelling connection to place, an understanding of the issues facing the natural environment, and a sense of urgency for sustainability.

SF Botanical Garden & Strybing Arboretum
San Francisco http://www.strybing.org

Ernest Clayton - California Wildflower Images
(January – April, 2013) –Ernest Clayton painted a series of nearly 200 watercolors of the California native plants that he saw on his many walks around Marin County in the period from 1938 to 1952. During his botanical outings, his granddaughters, who have organized this exhibit of prints of his artwork, often accompanied him. The collection of work by Mr. Clayton was purchased by the San Francisco Public Library prior to his death.

University of California-Berkeley
Berkeley

Cal Day Open House - April 20, 2013
It's a day like no other. Spend it in Cal classrooms and labs, museums and performance halls, libraries, and arenas. Admission is free.

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 1/30/2013

Temporary Exhibits
Professional Development

February 2013

2/2/2013  Cool Tools IX  East Bay Computer Using Educators
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.ebcue.org
Cost  $75  Stipend:
Many hands-on labs with topics such as: FlipVideo in the Classroom, Web 2.0 networking and collaborative tools, Interactive classroom technologies, Google Apps for education, Glogster, Live Binder, and much more!
• Hear from the 2011 EBCUE Grant winner and learn how to apply for a $1500 grant.
• Walk away with lesson ideas you can use to engage your students using 21st Century tools.
• Come hear classroom teachers share their tips and tricks as to how they are using technology to improve student learning.
• PRIZES! PRIZES! And more PRIZES – iPod Touch, flip video, flash drives, cameras, and more!

2/2/2013  Saturday Seminar - Examining Student Work  Bay Area Science Project
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://satsemfeb2.eventbrite.com
Cost  FREE  Stipend:
Science, Math, and Writing, working together under the umbrella of literacy and numeracy. The theme for the entire year is Common Ground: Connections Across Math, Science, and Writing. The focus of this session will be Examining Student Work As educators, how are we implementing practices and strategies that support our students to gather, examine, and communicate information, as they engage in the process of constructing explanations and evaluating their ideas? Join us in conversation as we reflect and share current research ideas and practices. **To get the most out of the workshops please bring 3-4 samples of your own student work. Keynote speakers: Anna Richert (Faculty Director), Carrie Wilson (Executive Director), and Claire Bove (Associate Director), Mills Teacher Scholars. Teachers are swimming in data that provide them information about student thinking. But what is the process for making sense of these data in a systematic way given the pace and demands of teaching? What kind of data gives us the best information about how students do and do not understand concepts we teach? In this session we will introduce the Mills Teacher Scholars model of teacher-led inquiry as a method to understanding student thinking.

2/2/2013  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.

2/2/2013  STEM Conference  San Mateo County Office of Education
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK
Cost  $40  Stipend:

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

Printed:  1/30/2013  Professional Development
Conference provides sessions that foster excellence in math, science and technology curricula, educational programs, and promotes professional excellence in teaching and strengthening leadership in these fields.

2/2/2013  Technology and Innovation in the Classroom  KIPP Bay Area Schools
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK
http://tinyurl.com/au3k2zx
Cost  FREE  Stipend:
KIPP: Bay Area Schools and Rocketship Education will host a free professional development event that will focus on how to incorporate technology in your classroom. This professional development will highlight ways to leverage Google, YouTube EDU, and Khan Academy’s technology to increase rigor and student engagement.

2/5/2013  Sustainability: Engineering Our Future - Workshop Series  California Academy of Sciences
For Grades:  3rd;4th;5th;6th;7th;8th
Cost  $35  Stipend:
February 5, 13, & 20. In order to participate, you must be able to attend all three sessions. What is the difference between science and engineering? Explore the science of sustainability and use engineering to solve problems related to conservation, while highlighting the skills involved in the engineering process.

2/8/2013  3rd Annual San Francisco Bay Area STEAM Colloquium.  Contra Costa County Office of Education
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://sfbaysteam2013-eac2.eventbrite.com/#
Cost  $25  Stipend:
Full STEAM Ahead: Pathways to the Future. Space is limited; Register early! The STEAM Colloquium will:
* Address critical issues in implementing STEAM education
* Showcase best practices in STEAM education
* Build leadership capacity for educators
* Provide opportunities to develop learning communities throughout the region

2/9/2013  NASA’s SOFIA Mission and Active Astronomy in the Classroom  Astronomical Society of the Pacific
For Grades:  5th;6th;7th;8th;9th;10th;11th;12th
http://astrosociety.org/education/k12-educators/bay-area-project-astro-workshops/
Cost  FREE  Stipend:
Most students are familiar with the rainbow of colors that make up visible light. They’re often less comfortable dealing with light from the other portions of the electromagnetic spectrum – gamma rays, X-rays, ultraviolet light, visible light, infrared light, microwaves, and radio waves. Students may not realize the important role non-visible light plays in their everyday lives. Learn some hands-on and demonstration activities designed to complement instruction on the electromagnetic spectrum for middle and high school students.

2/9/2013  Salmon Fishing & Ecology Teacher Workshop  Farallones Marine Sanctuary Association
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.farallonones.org
Cost  FREE  Stipend:
REGISTRATION REQUIRED Contact Peter Winch at: (415) 425-6450 or pwinch@farallones.org - Space limited. Bring a local fisherman into your classroom - This free program will provide teachers insights and techniques on how to teach students about salmon ecology and commercial fishing in Central California. Workshop will include:
- Local Fisherman Mike Hudson: the lifestyle and challenges of commercial salmon fishing in Central California.
- Salmon Dissection - GFNMS educator will lead teachers through an external and internal examination of an adult King Salmon to gain a deeper understanding of this animal’s adaptations and lifecycle.
- Teaching students about salmon - The FNMS has an abundance of great educational materials including giant interactive dice games, watershed models and art projects. An important part of the workshop will be to share this curriculum with teachers and discuss ways students can become more aware of atersheds and fishing issues.

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

Printed:  1/30/2013  Professional Development
2/9/2013  California Subject Matter Project 3rd Annual Education Conference  Life Lab Science Program
For Grades:  K;1st;2nd;3rd;4th;5th;6th
http://www.lifelab.org/for-educators/mbsp/mbsp-workshop/
Cost  $35  Stipend:
@CSU Monterey Bay - Crossing to the Common Core: Tools for Success - The California Subject Matter Project has created a professional development event for K-12 educators and administrators a day of engaging workshops in all content areas, with a focus on "Crossing to the Common Core." Reg. by February 1

2/12/2013  Webinar: Connections Between Practices in NGSS, Common Core Math, and Common Core ELA  National Science Teachers Association
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://learningcenter.nsta.org/products/SeminarRegistration.aspx
Cost  FREE  Stipend:
Through a collaborative, state-led process managed by Achieve, Next Generation Science Standards (NGSS) are being developed and are expected to be released this coming spring. The standards will be rich in content and practice, arranged in a coherent manner across disciplines and grades to provide all students an internationally benchmarked science education. The NGSS will be based on the Framework for K-12 Science Education developed by the National Research Council. NSTA is also a partner in the NGSS development process and has been providing guidance at every stage. This web seminar will give K-12 teachers strategies for implementing NGSS in the classroom.

2/23/2013  Bring the Outside In - FREE  NatureBridge at Golden Gate
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
naturebridge.org/goldengateteachers
Cost  FREE  Stipend:  $100 if attend 2 or more with fellow teacher
Learn simple strategies for building community, using nature in lessons, and getting your students outdoors. Bay Area high school interns from NatureBridge's Teen Environmental Education Mentorship are passionate and excited to share tips and activities with you that they enjoy doing with students. While designed for teachers of fourth and fifth grade, this workshop is open to any educator, traditional and nontraditional.

2/23/2013  Short Course - Unraveling the Genome  Museum of Paleontology
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.ucmp.berkeley.edu/about/shortcourses/reginfo13.php
Cost  FREE  Stipend:
Unraveling the Genome: What we've learned and why it matters. The genome sequence of an organism includes the collective DNA sequences of each chromosome in the organism, whether it be a bacterium, a honey bee, or a chimpanzee. Unraveling and comparing genomes informs our understanding of evolution, biodiversity, conservation, and the very essence of life. From the basics of genome sequencing to horizontal gene transfer and jumping genes, this short course will focus on what we have learned and why it matters.

March 2013

3/2/2013  Earth to Mars  Resource Area for Teachers (RAFT)
For Grades:  5th;6th;7th;8th;9th;10th;11th;12th
http://www.raft.net/workshops/in-house
Cost  $15 for members; $30 for non-members  Stipend:
With pegs for Sun, Earth, Mars and the second necessary point for a spacecraft orbit from Earth to Mars, we'll learn how to construct and use a demonstration unit for this event. We'll also see why astronauts might have to stay on Mars for a year and a half before coming back to Earth. INSTRUCTOR: Tom Gates has been an educator for over 40 years. He has taught secondary mathematics, and college astronomy courses.

3/2/2013  NASA Galileo Educator Network Teacher Workshop  Astronomical Society of the Pacific
For Grades:  3rd;4th;5th;6th;7th;8th;9th
http://astrosociety.org/education/k12-educators/bay-area-project-astro-workshops/
Cost  FREE  Stipend:
March 2 & March 9, 2013 attendance on both days is required. Become a NASA Galileo Educator through this 15-hour professional development opportunity for teachers. This NASA Galileo Educator Network workshop emphasizes inquiry-based strategies and the nature and practice of science. Learn activities and strategies for teaching Galileo themed science inquiry and space science content with NASA resources. Follow-up sessions allow participants the chance to try strategies and activities in their classrooms, then share with the group their successes and challenges. Each workshop participant will receive the astronomy teaching resource guide The Universe at Your Fingertips 2.0, and NASA resources for use in your classroom.

3/2/2013

Science Career Fair

For Grades: 8th;9th;10th;11th;12th
http://www.semsuccess.org/

Cost: FREE

Stipend:

The Science, Technology, Engineering and Mathematics (STEM) Career Fair and Exhibition is the signature event for the Math and Science Career Academy. The STEM Career Fair and Exhibition, which is free and open to the public, features exhibits, STEM professionals, and students who will discuss their careers, conduct hands-on demonstrations or showcase real-world applications of math and science. The event is designed to facilitate students visiting the tables of the exhibitors and moving freely between activities.

3/2/2013

The Nature and Process of Science - Workshop Series

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

Cost: $35

Stipend: $150

Saturday March 2, Saturday March 9, and Saturday March 16. In order to participate, you must be able to attend all three sessions. NEW! Deepen your understanding of the nature and process of science by participating in this three-day institute. Explore the Understanding Science website, created by our collaborators the University of California’s Museum of Paleontology, and learn how to investigate prior knowledge, identify misconceptions, introduce process skills and how science works, provide a real-world context, and explore ways of knowing. Participants will receive a $150 stipend upon completion of the series.

3/6/2013

Patterns in Art and Science - Workshop Series

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

Cost: $35

Stipend:

March 6, 13, and March 20. In order to participate, you must be able to attend all three sessions. What are patterns and how do they help define the world? Join us to trace and interpret patterns in nature, in art, and in data. Explore how patterns help us to see trends and develop thoughtful questions.

3/8/2013

Plant It, Grow It, Eat It - Enhancing Nutrition Educ - Reg by 2/21/13

Life Lab Science Program

For Grades: 2nd;3rd;4th;5th;6th;7th;8th
http://www.lifelab.org/for-educators/workshops/gcworkshops/

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.

3/9/2013

Math in the Life Sciences: Practical Applications

Resource Area for Teachers (RAFT)

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

Cost: $15 for members; $30 for non-members

Stipend:

Life science/biology is a discipline that blends skills learned through the study of chemistry, earth & space science, and physics as well as mathematics. The connection between math and life science is not as pronounced as it is with the physical sciences. This course will emphasize the math/life science connection through various activities, examples, materials, and presentations. Participants will leave the class with useful ideas that explicitly highlight the math/life science connection and that provide an effective method to implement the themes embedded within the Next Generation Science Standards and Common Core Math Standards.

INSTRUCTOR: Eric Welker is a former high school science and math teacher with 13 years of classroom experience.

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

Printed: 1/30/2013

Professional Development
3/16/2013  Sowing the Seeds of Wonder: Discovering Gardens in Early Childhood-Reg  Life Lab Science Program  
For Grades:  K;PK  
http://www.lifelab.org/for-educators/workshops/gcworkshops/  
Cost  $150  Stipend:  
Spend a day looking at the garden through the eyes of a pre-school student. Sample many activities that can encourage young children to learn about their world using all their senses. Learn how to implement garden activities in a pre-school setting. We’ll also discuss basic gardening skills, appropriate garden design, safe plants for pre-school gardens, and garden art projects and songs. You’ll receive a pre-school activity packet with activities and songs for teaching throughout the year.

For Grades:  3rd;4th;5th  
http://www.raft.net/workshops/in-house  
Cost  FREE  Stipend:  
Nanotechnology is all around us and has applications to the environment, energy, materials, and health. Join us in a fun, hands-on workshop to discover how chemistry and nanoscience improve our daily lives. Breakfast, lunch, a curriculum binder, and science materials for the classroom will be provided. Enrollment is limited. INSTRUCTORS: Juanita Ryan is employed as an Education Associate at the RAFT Redwood City. She retired from the Berryessa Union School District in San Jose after 36 years of teaching 1st-5th grades at Toyon School.

3/16/2013  Promoting Energy Action & knowledge (PEAK)  Resource Area for Teachers (RAFT)  
For Grades:  3rd;4th;5th;6th;7th  
http://www.raft.net/workshops/in-house  
Cost  FREE  Stipend:  $100  
Register at:: www.peakstudents.org/teachers/norcal_register.asp.  
Want to address the 3rd - 7th grade California Academic Content Standards in an engaging meaningful way? Are you interested in hands-on science labs and activities that empower students to save energy? Wish to inspire students to take action to create a more sustainable world? During the day you will learn and explore: The environmental impact of our energy use; The hands-on PEAK Labs and Action Activities. Ways to empower students to become change agents. How to integrate the PEAK program with confidence and ease which is easily integrated into existing lesson plans. Tools, support and Resources included: PEAK Teacher Resource Guidebook- PEAK Toolkit- Contains all the supplies needed for the PEAK labs and activities (valued at over $350). Ongoing Support- PEAK provides educational assemblies, classroom assistance, instructional planning, special events, and more!

3/16/2013  Coral Reefs  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) & Elly Walsh (SJSU Meteorology and Climate Science)  No marine habitats are as biologically diverse as coral reefs. Despite this, coral reefs currently face numerous threats, many of which are direct or indirect consequences of human activities. This workshop will focus on the biology of coral reefs, as well as the consequences of global climate change, pollution, and other factors on these ecologically and economically important “biodiversity hotspots”.

3/21/2013  Field Trip for Teachers @ The Crucible  Community Resources for Science  
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://crscrucible.eventbrite.com  
Cost  FREE  Stipend:  
The next Field Trip for Teachers will be at The Crucible on March 21, 2013 from 4:30-6:30pm.  The Crucible (thecrucible.org) is a non-profit educational facility that fosters a collaboration of Arts, Industry and Community. They offer classes to schools and the general public that support learning in science and the arts. We will have food and wine available while we network and learn about The Crucible and other science programs around the Bay. Please RSVP by contacting Corinn at CRS@crscience.org or learn more about the event and RSVP at  http://crscrucible.eventbrite.com

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

Printed:  1/30/2013  Professional Development
3/21/2013 - 3/22/2013

**The Growing Classroom: Intro. to Garden Based Learning - Reg by 3/7/13**

*For Grades: 2nd;3rd;4th;5th;6th*

*http://www.lifelab.org/for-educators/workshops/gcworkshops/*

**Cost** $300

**Stipend:**

Find out how to bring learning to life in the garden. Using The Growing Classroom activity guide for grades 2-6, participants in this workshop experience hands-on activities connected to academic content standards, learn basic science concepts and gardening techniques, and develop management strategies for a school garden program.

3/23/2013

**Lessons from the Ocean - FREE**

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

*naturebridge.org/goldengateteachers*

**Cost** FREE

**Stipend:** $100 if attend 2 or more with fellow teacher

Use the ocean to teach math, science, and language arts skills. Learn a marine food web activity, explore human impacts on ocean resources, and learn about cultural connections to the bay and the ocean.

3/23/2013

**Saturday Seminar: Accessing our Complex Language**

*Bay Area Science Project*

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

*http://satsemmarch23.eventbrite.com*

**Cost** Free

**Stipend:**

In math and science, writing requires that students assert and defend claims, show knowledge, and convey experiences. The new standards encourage students to make connections across a range of texts, become sensitive to inconsistencies in texts, and produce high-quality first draft text under a tight deadline. Students learn to gather information, evaluate sources, cite material, and report indings in a clear manner. Examine text complexity across disciplines.

3/23/2013

**Hayward fault trip (with a half-day at Chevron)**

*Bay Area Earth Science Institute*

*For Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th*

*http://www.baesi.org/*

**Cost** FREE

**Stipend:**

Will Schweller and Tim McHargue (Chevron Energy Technology Company, retired) and Ellen Metzger (SJSU Geology/BAESI) We will spend the morning discussing faults and earthquakes and will take an afternoon field trip to look for at evidence for faulting in downtown Hayward. This workshop will meet at Chevron’s facility in San Ramon; more details to follow.

3/23/2013

**Stars & Constellations**

*Resource Area for Teachers (RAFT)*

*For Grades: 1st;2nd;3rd;4th;5th;6th*

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

**Cost** $15 for members; $30 for non-members

**Stipend:**

Stars and Constellations: What are the bright objects we see in a clear sky at night? Let's learn to tell the difference between a star and a planet. We'll learn basic constellations and how to use a "Star Locator" to tell what bright stars and constellations we are seeing in the different seasons. We'll learn how to identify what planet we are seeing (if any are visible in the night sky at a given time). Also in this day of iPad users, we'll find out about a free app for very easy star and constellation identification (bring your iPad or other tablet).

**INSTRUCTOR:** Tom Gates has been an educator for over 40 years.

### April 2013

4/6/2013

**Mt. Diablo to Marin Field Trip**

*Bay Area Earth Science Institute*

*For Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th*

*http://www.baesi.org/*

**Cost** FREE

**Stipend:**

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

*Printed: 1/30/2013 Professional Development*
Angela Hessler (Chevron), Tim McHargue (Stanford), Will Schweller (retired Chevron) We will drive across one of the most amazing geologic transects in the world. You will see a diversity of rock types that together tell a remarkable story of plate collisions, mid-ocean volcanoes, and submarine landslides. We will identify rocks not just by their physical characteristics, but also by the processes that formed them, and by the processes that put them in their modern positions. And we will illustrate all of this with geologic maps – how the rocks are distributed today – as well as with paleogeographic maps – what the Bay Area looked like at different points in its natural history.

For Grades: 9th;10th;11th;12th
http://www.lifelab.org
Cost $300
Stipend:
Taught by Doron Comerchero and Abby Bell, Directors of Life Lab's "Food What?!" Teen Program
Explore the importance of youth empowerment when engaging with teens. Through hands-on activities, participants gain tools for tone-setting, exploring youth voice, and working with teens in garden and cooking settings. We will offer best practices, curriculum, pedagogy and fun from Life Lab's "Food What?!" program. Graduate education units available.

4/13/2013 Our Changing Climate - FREE
For Grades: 5th;6th;7th;8th;9th;10th;11th;12th
naturebridge.org/goldengateteachers
Cost FREE
Stipend: $100 if attend 2 or more with fellow teacher
Learn to teach basic climate science and how to empower your students to take action. Practice teaching the carbon cycle, investigate "garbology," and develop simple student action projects.

4/13/2013 Using Games & Role Plays to teach Elem./M.School Science
For Grades: 2nd;3rd;4th;5th;6th;7th;8th
http://www.raft.net/workshops/in-house
Cost $20 for members; $35 for non-members
Stipend:
Concepts including the carbon cycle; the water cycle; the rock cycle; fossils; sustainable, renewable, and non-renewable resources; energy from the Sun; the Greenhouse Effect, etc. Time to create your own for the next school year! Materials include board games, pieces, role play scripts. INSTRUCTOR: Elizabeth Brooking is a teacher at Wilson Elementary.

4/13/2013 Forces and Flight
For Grades: 1st;2nd;3rd;4th;5th;6th
http://www.raftbayarea.org/workshops
Cost 15 for members; $30 for non-members
Stipend:
Why doesn't an airplane fall out of the sky? What the engines used for flight and their uses based upon their design and capabilities? We'll have a number of activities to explore the forces of flight and learn about the balance between these forces to make flight happen. INSTRUCTOR: Tom Gates has been an educator for over 40 years.

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.nsta.org/conferences/2013san/
Cost $225-270
Stipend:
National Conference - Next Generation Science: Learning, Literacy, and Living. Explore the rich culture of San Antonio with its world-famous River Walk. With the theme Next Generation Science: Learning, Literacy, and Living, the conference strands will focus on Next Generation Assessments, Next Generation Elementary Science, Next Generation Special Populations, and Next Generation Technology.

4/20/2013 Solar Energy Workshop:
For Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.raft.net/workshops/in-house
Cost $30 for members; $45 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: 1/30/2013
Professional Development
Gain hands-on experience using solar energy to produce heat, electricity, motion, and electric light. Construct a newly design collapsible solar cooker. Learn how a solar cell is constructed and how light is turned into electricity. Use a solar panel to power an entertaining solar "jigger bug" and the eye catching Sun Spinner. Participants will receive a set of solar cells, motors, LED's and more so that the activities can be recreated in their classrooms.

INSTRUCTOR: Michael Pollock taught hands-on science to both mainstream and special needs elementary students for 25 years. He currently works at RAFT helping to produce educational kits.

4/20/2013  Cal Day Open House - April 20, 2013
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://calday.berkeley.edu/
Cost  FREE  Stipend:
It's a day like no other. Spend it in Cal classrooms and labs, museums and performance halls, libraries, and arenas. Admission is free.

4/20/2013  Open Education Resources
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.raft.net/workshops/in-house
Cost  $30 for members; $45 for non-members  Stipend:
FREE Tools to Make Teaching and Learning Easier: If you like finding and using FREE tools that can make managing teaching and learning easier, relevant, and exciting this class is for you! Explore the world of Open Educational Resources, Khan Academy and similar tools. You will be inspired as you see how you can use these tools both or personal growth, and how valuable they can be in classroom management and student learning. Learn best practices to integrate these tools into your curriculum and track student learning, or enjoy their usage for personal growth.  INSTRUCTOR: Janet Davis has been an elementary school teacher for 14 years. She also worked as a web developer for NASA Ames and was an Instructional Designer for Foothill/DeAnza Learning Technologies Division. Currently she is Program Manager for the Adobe Train the Teacher program.

4/27/2013  Common Core Literacy in Science - reg by  4/13/13
For Grades:  6th;7th;8th;9th;10th;11th;12th
http://www.lifelab.org
Cost  $150  Stipend:
Taught by Joyce Hill, Director of the Monterey Bay Science Project. Learn to embed Common Core State Literacy Standards into your science curriculum. Using a sample lesson in the Garden Classroom setting, participants explore strategies for integrating literacy into science and discuss best practices with other middle and high school teachers.

4/27/2013  KQED/SPARK Arts Integration
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.raft.net/workshops/in-house
Cost  FREE for members; $15 for non-members  Stipend:
Discover new KQED Arts videos that are free and made for classroom use. Your students can learn how to break-dance from a local hip-hop artist, how to draw characters from a commercial cartoonist, how to make their own stencils, and more! This workshop will cover the basics of how to download free videos from iTunes, and best practices for classroom application. Media is an important component of the new Common Core Standards, and KQED has exactly what you'll need to help you incorporate educational videos in your classroom. Many of the videos are a great fit for arts and social studies integration. Workshop participants will receive tech training and goodies from KQED. INSTRUCTOR: Elizabeth Brooking is a teacher at Wilson Elementary.

4/27/2013  NASA's MAVEN mission: Red Planet: Read, Write, Explore!
For Grades:  3rd;4th;5th
http://lasp.colorado.edu/home/maven/files/2013/01/MAVEN_one_page.pdf
Cost  $15  Stipend:
A suite of six standards-based lessons combines science, literacy, and art to help students understand planetary habitability and the MAVEN mission. Students learn about Mars science, planetary habitability, and future exploration. Students read, write, and listen to both fiction and non-fiction about Mars, conduct research, and share ideas through discussion. Accompanying the lessons are science experiments and demonstrations. The workshop, offered by the MAVEN education team, will introduce you to these lessons and concepts. The workshop will also have a session devoted to Spanish speaking ELL and ESL students. You will receive free classroom materials, including a copy of Dr. Jeffrey Bennett’s Max Goes to Mars.

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

Printed:  1/30/2013  Professional Development
May 2013

5/18/2013 The Changing Future of Energy Bay Area Earth Science Institute
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). 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.

5/18/2013 Garden-Enhanced Nutrition Education Workshop Life Lab Science Program
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th
Cost FREE Stipend:
@UC Davis Children's Garden, Davis - The Garden-Enhanced Nutrition Education (GENE) workshop is for California educators interested in using existing school gardens to enhance nutrition education for children and youth. In this FREE workshop, we will share:
* activities and tips for making nutrition education hands-on, edible, engaging and effective
* tips for eating from the garden
* crop planning information for an edible harvest
* strategies for implementing GENE programs

5/22/2013 Garden-Enhanced Nutrition Education Workshop Life Lab Science Program
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th
Cost FREE Stipend:
@ Life Lab Garden Classroom, Santa Cruz - The Garden-Enhanced Nutrition Education (GENE) workshop is for California educators interested in using existing school gardens to enhance nutrition education for children and youth. In this FREE workshop, we will share:
* activities and tips for making nutrition education hands-on, edible, engaging and effective
* tips for eating from the garden
* crop planning information for an edible harvest
* strategies for implementing GENE programs

5/31/2013 Garden-Enhanced Nutrition Education Workshop Life Lab Science Program
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th
Cost FREE Stipend:
@ North San Francisco Bay Area Location TBA - The Garden-Enhanced Nutrition Education (GENE) workshop is for California educators interested in using existing school gardens to enhance nutrition education for children and youth. In this FREE workshop, we will share:
* activities and tips for making nutrition education hands-on, edible, engaging and effective
* tips for eating from the garden
* crop planning information for an edible harvest
* strategies for implementing GENE programs

June 2013

6/10/2013 - 6/14/2013 School Garden Training - register now Occidental Arts and Ecology Center
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
http://www.oaec.org/school-garden
Cost $500 Stipend:

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

Printed: 1/30/2013 Professional Development
This five-day intensive residential training offers hands-on skills and theoretical approaches to promote and support the creation of school gardens. The course will focus on integrating the school garden into all curricula and state standards, as well as exploring nutrition, recycling, project-based learning, art, team building, and fundraising. This course is designed for teams of teachers, parents, administrators, and volunteers who have a relationship with a specific school and wish to create or improve a school garden. Involvement in the training entitles participating teams to school garden curricula, an extensive resource binder, two skills workshops, and follow-up site visits by OAEC staff at schools throughout the following year.

6/12/2013 - 6/14/2013  
**GEMS Associate training**  
Lawrence Hall of Science

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th  
https://www.regonline.com/GEMSassociates2013  

Cost $475  
Stipend: 
A three-day workshop at the Lawrence Hall of Science. Do you actively provide professional development to teachers? Do you have ongoing opportunities to support teachers in mathematics and science education? This workshop conveys various strategies to increase your capacity and become an ever more effective resource for teachers—by becoming a GEMS Associate. Topics and activities covered include:  
* An in-depth review of the GEMS philosophy and approach.  
* A review of how GEMS addresses national, state, and local frameworks, benchmarks, and standards.  
* How the GEMS units can be used to create or augment a larger curriculum.  
* Effective strategies for introducing teachers to GEMS curricula and supporting their use of GEMS materials.  
* Firsthand experience with a number of GEMS units.  
* Networking opportunities with other educators  
As an Associates Workshop participant, you will receive a certificate of completion, and you will be provided with the GEMS Leaders and the GEMS Teachers Handbooks PLUS ten GEMS Teacher's Guides of your choice. In addition, you will receive a 15% discount on all future GEMS Guide purchases. We will also talk about the parameters for establishing a GEMS Network Site or Center, and whether that is something for you to consider. GEMS Associates have the opportunity to work with us on future initiatives and collaborations, such as field testing of new units.

6/16/2013 - 6/20/2013  
**Forestry Institute for Teachers - Plumas County**  
Forestry Institute for Teachers

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

Cost $25  
Stipend: 
These week-long workshops provide participants with Forestry curriculum resources guides, Project Learning Tree and Project Aquatic WILD training, and a $100 stipend, plus housing, meals and curriculum materials.

**The Edible Schoolyard Academy - apply by 3/17**  
Edible Schoolyard

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

Cost $600  
Stipend: 
Creating Garden and Kitchen Classrooms in Every Community. The Chez Panisse Foundation presents The Edible Schoolyard Academy: Creating Garden and Kitchen Classrooms in Every Community. Each two-day academy will provide kitchen, garden, and classroom educators with tools for teaching Edible Education - an integrated approach to hands-on education in the kitchen, classroom, lunchroom and garden.

6/24/2013 - 6/28/2013  
**School Garden Training**  
Occidental Arts and Ecology Center

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th  
http://www.oaec.org/school-garden  

Cost $400  
Stipend: 
This five-day intensive residential training offers hands-on skills and theoretical approaches to promote and support the creation of school gardens. The course will focus on integrating the school garden into all curricula and state standards, as well as exploring nutrition, recycling, project-based learning, art, team building, and fundraising. This course is designed for teams of teachers, parents, administrators, and volunteers who have a relationship with a specific school and wish to create or improve a school garden. Involvement in the training entitles participating teams to school garden curricula, an extensive resource binder, two skills workshops, and follow-up site visits by OAEC staff at schools throughout the following year.

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

Printed: 1/30/2013  
Professional Development
**Biodiversity**

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

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

**Cost**: $1990  
**Stipend**: 

In Washington DC - Understanding issues of the nature and evolution of biodiversity is key to the survival of life on this planet. The Biodiversity Academy consists of a series of unique experiences designed to introduce teachers to the variety of life and enhance teacher understanding of concepts related to biodiversity. You will participate in hands-on content sessions by interacting with scientist, curators, and museum educators.

Total of $1,990 includes course materials, accommodations (TBA), daily breakfast and lunch, a Sunday evening reception and orientation, an evening celebratory meal, all local travel (excluding airport transit). There is a $500 discount for those forgoing hotel stay, and other discounts may apply. Email crowellj (at) si (dot) edu for more information.

**Forestry Institute for Teachers - Tuolumne County**

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

http://www.forestryinstitute.org/

**Cost**: $25  
**Stipend**: 

These week-long workshops provide participants with Forestry curriculum resources guides, Project Learning Tree and Project Aquatic WILD training, and a $100 stipend, plus housing, meals and curriculum materials.

**July 2013**

**2013 Educator Academy in the Amazon Rainforest**

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

http://www.amazonworkshops.com/index.html

**Cost**: $1985 land only  
**Stipend**: 

Are you ready for a life changing adventure? An experience that will feed your soul, expand your professional toolkit for inquiry based science, anchor your global perspective, and change your definition of professional development? Join us in Peru July 2-11, 2013 for a professional development experience like no other. PD Hours, Graduate Credit, and Scholarships available!

**Energy: Past, Present, & Future**

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

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

**Cost**: $1990  
**Stipend**: 

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

Total of $1,990 includes course materials, accommodations (TBA), daily breakfast and lunch, a Sunday evening reception and orientation, an evening celebratory meal, all local travel (excluding airport transit). There is a $500 discount for those forgoing hotel stay, and other discounts may apply. Email crowellj (at) si (dot) edu for more information.

**2013 Summer Teacher Institute Workshops**

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

http://www.exploratorium.edu

**Cost**: Stipend available  
**Stipend**: $1000

---

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

Printed: 1/30/2013  
Professional Development
Three-week institutes focusing on physics, middle school–high school general science, life science, and mathematics for teachers new to the Exploratorium Teacher Institute. These institutes support the content and pedagogy described in the National and California State Standards. After completing one of these two-week professional development institutes, you become an alumnus of the Teacher Institute and are eligible to attend alumni institutes and workshops. The library also becomes available for project research.

<table>
<thead>
<tr>
<th>Date</th>
<th>Institute</th>
<th>Location</th>
<th>Grade Levels</th>
<th>Website</th>
<th>Fee</th>
<th>Stipend</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/10/2013</td>
<td>Seeds of Science/Roots of Reading</td>
<td>Lawrence Hall of Science</td>
<td>2nd;3rd;4th;5th</td>
<td><a href="https://www.regonline.com/seeds2013">https://www.regonline.com/seeds2013</a></td>
<td>$475</td>
<td></td>
</tr>
<tr>
<td>7/12/2013</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/8/2013</td>
<td>School Garden Training</td>
<td>Occidental Arts and Ecology Center</td>
<td>9th;10th;11th;12th</td>
<td><a href="http://www.oaec.org/school-garden">http://www.oaec.org/school-garden</a></td>
<td>$400</td>
<td></td>
</tr>
<tr>
<td>7/12/2013</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/7/2013</td>
<td>Forestry Institute for Teachers - Shasta County</td>
<td>Forestry Institute for Teachers</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th</td>
<td><a href="http://www.forestryinstitute.org/">http://www.forestryinstitute.org/</a></td>
<td>$25</td>
<td></td>
</tr>
<tr>
<td>7/13/2013</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/14/2013</td>
<td>Forestry Institute for Teachers - Humboldt County</td>
<td>Forestry Institute for Teachers</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th</td>
<td><a href="http://www.forestryinstitute.org/">http://www.forestryinstitute.org/</a></td>
<td>$25</td>
<td></td>
</tr>
<tr>
<td>7/20/2013</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/22/2013</td>
<td>GEMS Curriculum Sequences</td>
<td>Lawrence Hall of Science</td>
<td>3rd;4th;5th;6th;7th;8th</td>
<td><a href="https://www.regonline.com/OSS68workshop2013">https://www.regonline.com/OSS68workshop2013</a></td>
<td>$320</td>
<td></td>
</tr>
<tr>
<td>7/23/2013</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* How Seeds/Roots supports the enactment of the Common Core English/Language Arts Standards
* How Seeds/Roots supports the vision of the NRC Framework for K-12 Science Education
* Firsthand experience with activities from Seeds/Roots units
* Review of the student books and the role they serve in supporting inquiry science
* Refining teaching practices through a closer look at the "Teaching Support and Considerations" features in the Seeds/Roots teacher guides
* Information about the Seeds/Roots effectiveness studies
* Networking opportunities with like-minded educators
* A sneak peak at units in development

7/11/2013 - Seeds of Science/Roots of Reading
For Grades: 2nd;3rd;4th;5th
https://www.regonline.com/seeds2013
Cost $475 Stipend:
This three–day workshop will provide participants with a deeper understanding of the Seeds of Science/Roots Reading curriculum and philosophy. You can expect to enhance your understanding of the how, when and why of science and literacy integration. Special breakouts will be offered to support the range of participants, from potential users to those who have years of experience with the program and want to know even more.

* How Seeds/Roots supports the enactment of the Common Core English/Language Arts Standards
* How Seeds/Roots supports the vision of the NRC Framework for K-12 Science Education
* Firsthand experience with activities from Seeds/Roots units
* Review of the student books and the role they serve in supporting inquiry science
* Refining teaching practices through a closer look at the "Teaching Support and Considerations" features in the Seeds/Roots teacher guides
* Information about the Seeds/Roots effectiveness studies
* Networking opportunities with like-minded educators
* A sneak peak at units in development

7/13/2013 - School Garden Training
For Grades: 9th;10th;11th;12th
http://www.oaec.org/school-garden
Cost $400 Stipend:
This five-day intensive residential training offers hands-on skills and theoretical approaches to promote and support the creation of school gardens. The course will focus on integrating the school garden into all curricula and state standards, as well as exploring nutrition, recycling, project-based learning, art, team building, and fundraising. This course is designed for teams of teachers, parents, administrators, and volunteers who have a relationship with a specific school and wish to create or improve a school garden. Involvement in the training entitles participating teams to school garden curricula, an extensive resource binder, two skills workshops, and follow-up site visits by OAEC staff at schools throughout the following year.

7/15/2013 - Forestry Institute for Teachers - Shasta County
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.forestryinstitute.org/
Cost $25 Stipend:
These week-long workshops provide participants with Forestry curriculum resources guides, Project Learning Tree and Project Aquatic WILD training, and a $100 stipend, plus housing, meals and curriculum materials.

7/18/2013 - Forestry Institute for Teachers - Humboldt County
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.forestryinstitute.org/
Cost $25 Stipend:
These week-long workshops provide participants with Forestry curriculum resources guides, Project Learning Tree and Project Aquatic WILD training, and a $100 stipend, plus housing, meals and curriculum materials.

7/21/2013 - GEMS Curriculum Sequences
For Grades: 3rd;4th;5th;6th;7th;8th
https://www.regonline.com/OSS68workshop2013
Cost $320 Stipend:
We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org

Printed: 1/30/2013 Professional Development
The GEMS Curriculum Sequences provides in-depth coverage of specific, standards-based topics and includes integrated assessments and complete materials kits. We currently offer the GEMS Space Science Sequence for Grades 3–5, and for Grades 6–8, and the GEMS Ocean Sciences Sequence for Grades 3–5, and Grades 6–8 (available Spring, 2013). This workshop will focus on the Ocean Sciences Sequence for Grades 6–8, The Ocean – Atmosphere Connection and Climate change. This latest addition to the GEMS Curriculum Sequences engages students in investigating climate change through the evolution of the ocean and atmosphere through Earth’s history, movement of the atmosphere and ocean through density and air and water currents, the carbon cycle, and the ocean’s relationship to climate and climate change. Topics and activities include:
* In-depth, hands-on experiences with curriculum activities, including practice in the use of “scientific argumentation” and making evidence-based explanations.
* A detailed review of the Ocean Sciences Sequence for Grades 6–8 concepts, and how the units provide both in-depth coverage of the subject matter, and great flexibility of implementation.
* Review of the Ocean Sciences Sequence philosophy, our approach to the scope and sequence, and the strong teacher support features of the curriculum.
* A discussion of the effectiveness studies done with the GEMS Curriculum Sequences (Ocean and Space) and how those validate the curriculum and inform your approach to teaching the units.

Teacher Institute on Science and Sustainability - reg by 3/15
For Grades: 3rd;4th;5th
http://www.calacademy.org/teachers/tiss/
Cost: FREE  Stipend: $2000/year
TISS is an intensive two year professional development opportunity for 3rd - 5th teachers where teachers learn how to incorporate sustainability themes into their science curriculum. TISS teachers receive an annual $2000 stipend, a membership to the Academy, a class set of science journals, classroom support, and more. Preference to teams of teachers (3-5 per school).

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

August 2013

Bay Area Project Astro Workshops - reg by May 29
For Grades: 3rd;4th;5th;6th;7th;8th
http://www.astrosociety.org/education/astro/bayarea/teacher.html
Cost: $40  Stipend:
These workshops are required in order to be paired up with an astronomer for a minimum of four in-class visits during the coming school year. Popular program. Sign up early. No prior astronomical teaching required.

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

Professional Development
Educator at Sea - apply by 3/1/13

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


Cost: FREE

Stipend:

Educator at Sea fellowships are now available for the 2013 field season. Formal and informal educators from around the world are encouraged to apply. Educator at Sea positions entail 2-4 week periods working aboard E/V Nautilus and other oceanographic research vessels as communicators of the expedition, sharing discoveries with global audiences on shore. They further participate in interactive presentations with student groups and public audiences to engage people of all ages in scientific exploration. An equally important aspect of the program is bringing the expedition back home to local student populations and communities after our Educators have joined us at sea.
Ongoing Professional Development

Seminars on Science - Online Courses for Educators
http://learn.amnh.org/
These six-week courses developed by Museum scientists and educators incorporate the Museum’s rich resources including three-dimensional virtual specimens, videos from the field, and interactive simulations. Teachers participate in discussions and activities with the Museum’s scientists and educators. Continuing education units and graduate credits are available. For more information go to http://learn.amnh.org.

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

Edspace
http://education.kqed.org/edspace/
This blog from KQED has posts of great information to take straight to your classroom. Online self-paced tutorials. Lesson ideas and more. Search the blog for the topics of your choice.

Free Webinars
http://neon.psu.edu/webinars/
The NASA Educator’s Online Network offers webinars for teachers on a variety of science topics and how to bring these concepts into your classroom.

NSTA Professional Development Resources
http://www.nsta.org/pd/
The NSTA Learning Center has articles on science education, webinars (live and archived), lesson plans, books lists and so much more. Some resources are free, others are only available with NSTA membership. Membership is well worth it just to get their monthly journal.

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

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

Your Own Design

Banana Slug String Band

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

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

Wonders of Water Teacher Orientation

Bay Model Visitor Center

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

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

Professional Development at your School

California Academy of Sciences

http://www.calacademy.org

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

Whole School Science Professional Development

Community Resources for Science

http://www.crscience.org

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

Educator Workshops

Friends of the Estuary

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

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

Environmental Education Services

Kids for the Bay

http://www.kidsforthebay.org

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

Printed: 1/30/2013
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

Common Core and FoSS: Building ELA Skills through Active  Lawrence Hall of Science
How is your school preparing to implement Common Core State Standards for English Language Arts?
Have you considered building reading, writing, speaking, and listening skills through active science?
Science is an ideal content area for students to develop the skills needed to meet the Common Core State Standards.
The FOSS Leadership Team from the Lawrence Hall of Science can help you build your students’ abilities to use language effectively. Our teacher workshops are designed to provide experiences modeling the overlap between science and the ELA Common Core State Standards. FOSS workshops focus on how active science provides a rich experience for students to:
• effectively communicate in collaborative discussions.
• acquire and use academic and domain-specific vocabulary to express their thinking.
• write a variety of text, including informative, narrative, and evidence-based arguments.
• read and comprehend informational text, integrating knowledge and ideas.
• conduct research, using a variety of resources and present their knowledge clearly
Brian Campbell 510-664-4747  brcampbell@berkeley.edu  or
Joanna Totino  510-643-3478  jtotino@berkeley.edu

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

We’re here to help you find the science resources you’re looking for. Email us at CRS@crscience.org
Printed:  1/30/2013  Professional Development at your school
Zoo staff can design customized workshops to fit your teaching needs covering a broad range of science related subject areas. The current programs include:
Rain Forest Review (Grades 3-8) - A closer look at essential functions of a tropical rain forest; Suitcase For Survival (Grades 3-12) - Learn to use the U.S. Fish and Wildlife biofacts to teach about endangered animals and the illegal wildlife trade; There Are Treasures At Your Zoo (Grades K-8) - Use the classic treasure hunt to learn about adaptations, habitats, and animals; Biodiversity (Grades 6-12) Learn what biodiversity is; the threats facing it and what you can do; Conservation (Grades 5-12) Learn about conservation through group activities and small group discussions taken from Project Wild.
Habitats and Adaptations (Grade6-12) Learn about animal adaptations during a scavenger hunt in the zoo!

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

**RAFT Outreach Workshops**  
Resource Area for Teachers (RAFT)  
[http://www.raft.net](http://www.raft.net)
RAFT offers a variety of hands-on science workshops for teachers. They can be scheduled at your school. Topics include - THE POWER OF HANDS-ON TEACHING, On The Move: Science Workshops: (Catch a Wave , A Model Science Class, Let’s Mix Things Up , Attractive Science! Exploring Magnetism ). Price includes teaching kits

**Teacher Training/Team Building - Physical Sciences**  
Rock-It Science  
[http://www.rockitscience.org](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](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](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](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](http://www.tomsnyder.com)

_We’re here to help you find the science resources you’re looking for. Email us at CRS@crscience.org_

Printed: 1/30/2013  
Professional Development at your school
This software training bundle includes 1 full-day workshop in which teachers learn to: (1) evaluate how different software, Internet activities, and lesson plans correlate to state frameworks, (2) find, evaluate, and utilize Internet sites that support teaching objectives, (3) align software and Internet resources with state standards in K-8 Math, Science, Social Studies, and English Language Arts. Workshops can be tailored to meet your Internet and computer in the classroom needs.

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

UC Botanical Garden

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

Printed: 1/30/2013
Professional Development at your school