Science Resource Guide - Winter 2014

CRS prepares and sends the Science Resource Guide three times a year to keep you apprised of science education happenings around the Bay. The guide includes information on: Professional Development, Program Deadlines, Grant Deadlines and Temporary Science Exhibits. Next issue—May 2014 (ELECTRONIC ONLY)

Find this guide (with additional program information) online at www.crscience.org/ResourceGuideW2014.pdf

Are you taking the Science Super Star Challenge?

We have heard from dozens of schools and teachers who expressed enthusiasm at the start of the school year. We want to help you make it across the finish line so you can submit your completed Science Super Star Challenge form by March 31. We also want to make sure we have enough books, awards, and presentations for the classroom teachers, students, and whole schools who participate so please take a moment to click on the link below to let us know you plan to complete the Challenge. We expect 100 teachers and at least a dozen whole schools to participate -- we're looking forward to celebrating your success as Science Super Stars!

Remember, you can call on us for support as you complete those remaining Challenge items.

Please let us know you and/or your whole school are participating by filling out our short survey monkey form. https://www.surveymonkey.com/s/KWHPQHP

For more information on the Science Super Star challenge and to print out your application go to http://www.crscience.org/sciencesuperstarprogram

Eight teachers have already completed the Science Super Star Challenge for 2013-14! Congratulations to these teachers and their students for putting a focus on science learning this year.

3rd Year as a Science Super Star
- Allison McGuirk – Lincoln Elementary

2nd Year as a Science Super Star
- Tracy Dordell – New Highland Academy
- Joanna Davis – New Highland Academy
- Ann Park – Bridges at Melrose

1st Year as a Science Super Star
- Carrie Anderson – New Highland Academy
- Kelle Banks – New Highland Academy
- Emily Blosson – New Highland Academy
- Diego Callejon – New Highland Academy

Invite CRS to a Staff Meeting! Free Professional Development

Sign up Now! Whether you’d like a brief 15-minute overview of CRS services or a more extensive professional development presentation, we can focus on the questions that matter to you, including:
- How do I get help finding lesson ideas, field trips and in-class programs, grant opportunities, and materials?
- How do I get BASIS scientist volunteers in my classroom?
- How can we link the Common Core Standards with the Next Generation Science Standards?
- How can we start planning for a science fair or family science night?
- CRS will come present a one-hour workshop to introduce engineering in the elementary setting -- it's not just about building bridges! Learn some fun and engaging projects that you do in your classrooms and learn about resources for exploring further.

Check your calendars and give CRS a call.

To Contact CRS - Call 510-527-5212 or email CRS@crscience.org
We’re your go-to source for science connections!

At CRS, we believe all children should have access to exciting science learning experiences in school that build on their natural curiosity about their world because science is a gateway to the future. And, we believe teachers should have access to timely information and personalized support to help them teach science well.

Since 1997, we’ve worked to help teachers bring exciting learning experiences to their students. This resource guide is just one example of the services we provide. To see more about the work of CRS, check out our 2013 Annual Report here: http://www.crscience.org/pdf/AnnualReport2013.pdf

We also believe diverse, enthusiastic scientist and engineer role models of all genders and backgrounds have tremendous power to break down stereotypes and to inspire children to imagine new possibilities for themselves and discover new interests to explore. Our BASIS program connects scientists with hundreds of teachers and thousands of students each year.

Our goal is simple: help K-6 teachers give students more opportunities to “do science” – to ask questions, test ideas, get their hands on real science activities. It’s critical because most people working in science fields got their spark for science from learning experiences they had by age 11. Without great early science lessons and diverse scientist role models, the next Einstein sitting in a 3rd grade classroom might never realize she is someone who is good in science!

How can we help connect you with science?

Please Share Your STEM Bulletin Board Ideas!

When we visit schools in the Bay Area, we love to walk the hallways on our way to classrooms, to do a lesson, or present Science Super Star prizes, and admire all of the amazing bulletin boards that teachers and students have created that combine science, writing, and art! Take a look at some of the ones we've seen on our school visits: http://bit.ly/1iePNYT

We’re inviting you to show off your classroom's STEM-related bulletin board? What are you putting up in your hallways? Send your photos to crs@crscience.org or include them as part of your Science Super Star packet.

Every one who sends us STEM bulletin board examples will be entered into a drawing for a copy of the "Those Darn Squirrels" book -- a charming literature connection to engineering activities!

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Who do we serve?

The target audience for CRS is public elementary school teachers in the East Bay. We serve all elementary schools in Berkeley Unified School District, Oakland Unified School District and Emery Unified School District. We also have some members in the West Contra Costs School District, some middle school teachers.

1,024 Teacher Members

114 Schools with CRS members:

206 BASIS Scientist Volunteer Presentations so far this year: Goal: 450

The Spring Science Resource Guide will be ELECTRONIC ONLY

If you want to see the next issue of this resource guide in May, please make sure CRS has an active email address for you.

- Are you receiving the email invitations for BASIS volunteers? – Then we have your email address.
- Are you receiving our monthly e-NewsBlast? If so we have your email address.
- If you are receiving the BASIS invitations by NOT the e-NewsBlasts, it may mean that you haven’t added our newsletter email to your safe sender list. We send it out under Community resources for science@mail.vresp.com

Please add us to your safe sender list.

Do you have colleagues that could benefit from CRS Membership?

For a limited time CRS membership is available at the low rate of $20 for a full 12 months. For more information about all the benefits of CRS Membership and to sign up go to http://www.crscience.org/educators/memberservices

Oakland Elementary Teachers can have CRS Membership for Free.

Our generous funders have made it possible to provide free membership to any elementary teacher in the Oakland Unified School District (charter schools are excluded). Do you have a colleague at any of the Oakland elementary schools that could benefit from CRS membership? Have them email Corinn at CRS@crscience.org or fill out the online form at http://www.crscience.org/educators/grantsupportedmembership

Allendale Elementary
Bridges Academy at Melrose
Burckhalter Elementary
Carl B. Munck Elementary
Chabot Elementary
Cleveland Elementary
Community United Elementary
Crocker Highlands Elementary
EnCompass Academy
Esperanza Academy
Franklin Elementary
Hillcrest Elementary
Hoover Elementary
Howard Elementary
International Community Elementary
Joaquin Miller Elementary
Korematsu Discovery Academy
Lafayette Elementary
Laurel Elementary
Lincoln Elementary
Martin Luther King Jr. Elementary
Montclair Elementary
New Highland Academy
Parker Elementary
Peralta Elementary
PLACE @ Prescott
RISE Community School
Sankofa Academy
Sequoia Elementary

To Contact CRS - Call 510-527-5212 or email CRS@crscience.org
Program Deadlines

February 2014

2/21/2014  Program Applications Due for 2014 Programs
  Grades:  3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
  http://ca.mousesquad.org/forms/squadapplication.html
  Mouse Squad of California

March 2014

3/3/2014  Deadline Spring 2014 (Mar 17 - Apr 27) - Online PD
  Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
  http://learn.amnh.org/
  American Museum of Natural History

3/10/2014  Summer Program Application Deadline
  Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
  http://www.forestryinstitute.org/
  Forestry Institute for Teachers

3/12/2014  Deadline to apply - Summer Institute for Middle School Science Teachers
  Grades:  6th;7th;8th
  http://www.nist.gov/iaao/teachlearn/
  National Institute of Standards and Technology

3/14/2014  Application Deadline for School Garden Training Summer 2014
  Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
  http://www.oaec.org/school-garden
  Occidental Arts and Ecology Center

3/15/2014  Teacher Institute on Science and Sustainability - Deadline to apply for July In:
  Grades:  3rd;4th;5th
  http://www.calacademy.org/teachers/tiss/
  California Academy of Sciences

3/15/2014  2014 Summer Teacher Institute Workshops - Applications Due
  Grades:  6th;7th;8th;9th;10th;11th;12th
  http://www.exploratorium.edu/teacher-institute/summer
  Exploratorium

  Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
  http://www.walkercreekranch.org/oe.htm
  Walker Creek Ranch

3/23/2014  The Edible Schoolyard Summer Academy - Deadline to apply
  Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
  http://edibleschoolyard.org/academy
  Edible Schoolyard

April 2014

4/1/2014  Geoscape Bay Area for Earth Sciences Teachers - Reg. Deadline
  Grades:  6th;7th;8th;9th;10th;11th;12th
  https://pangea.stanford.edu/academics/outreach-programs/teacher-programs/geoscape-workshop
  Stanford School of Earth Science

4/1/2014  Techbridge Summer Training Institute Early bird Regdeadline
  Grades:  5th;6th;7th;8th;9th;10th;11th;12th
  http://www.techbridgegirls.org/
  Techbridge

May 2014

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

Printed 2/16/2014

Program Deadlines
Applications Due - Living History Overnight Programs 2014-15 school year
Grades: 4th;5th
http://angelisland.org/history/angel-island-state-park-living-history-program/

Summer Fellowship Program - deadline to apply
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://iisme.org/teachers

Lottery Deadline for Summer Fieldtrips
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.ebparks.org/activities/educators/trips

Reg. Deadline - Summer 2014 #1- (May 26-July 6) - Online PD
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://learn.amnh.org/

Fall 2014 Program Application Deadline
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.slideranch.org

Project Astro Application Deadline
Grades: 3rd;4th;5th;6th;7th;8th
http://www.astrosociety.org/education/astro/bayarea/bay.html

June 2014
Reg. Deadline - Summer 2014 #2- (July 7-Aug 17) - Online PD
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://learn.amnh.org/

August 2014
Lottery Deadline for Fall Fieldtrips
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.ebparks.org/activities/educators/trips

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Printed   2/16/2014

Program Deadlines
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Grade Levels</th>
<th>Organizer</th>
<th>Website</th>
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<tbody>
<tr>
<td>2/18/2014</td>
<td>Teacher Workshops Rocks and Organic Matter = Soil</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th</td>
<td>Math Science Nucleus</td>
<td><a href="http://msnucleus.org/classes/teacherworkshop.html">http://msnucleus.org/classes/teacherworkshop.html</a></td>
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<td><strong>Cost</strong>: $15 per person (<strong>SPECIAL</strong>: first 15 teachers free*)</td>
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<td><strong>Stipend</strong>:</td>
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<td>Native Soil and Composting – Chemistry of soil, and how to grow natives (or why does wine grapes like volcanic soil) Learn the local rocks; receive samples, geological map, soil testing</td>
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<td>2/22/2014</td>
<td>Learn to Make - Soldering</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th</td>
<td>Lighthouse Community Charter School</td>
<td><a href="http://lighthousecreativitylab.org/professional-development/">http://lighthousecreativitylab.org/professional-development/</a></td>
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<td></td>
<td><strong>Cost</strong>: $54</td>
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<td><strong>Stipend</strong>:</td>
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<td>(Saturdays, 10 am – 1 pm) In a Learn to Make session, you will build your expertise in a specific skill set. Most of the session will be spent creating something. During the session we will mix in discussion about how to bring the activity, or related activities, to the classroom. For example, in a beginning Arduino session, you will work through the activities we use in our high school class and then complete a project using your new skills! You will leave with your creation or a basic kit to get you started back at your own site. Lunch provided.</td>
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<td>2/27/2014</td>
<td>Webinar: - NGSS: Changes, Impacts, and Responses in K-12 and CSU</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th</td>
<td>WestEd</td>
<td><a href="http://www.schoolsmovingup.net/cs/smu/view/e/5224">http://www.schoolsmovingup.net/cs/smu/view/e/5224</a></td>
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<td><strong>Cost</strong>: <strong>FREE</strong></td>
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<td>3:30 p.m. - 5:00 p.m. An overview of the Next Generation Science Standards (NGSS) and key changes from previous standards will be presented. Highlights include examples from K-12 classrooms implementing change in response to the NGSS, science preparation in the CSU system, and course requirements and content for the future. Incorporating engineering and literacy skills into the science classroom are some of the biggest concerns we have heard from K-12 teachers about NGSS, so the panelists will focus on how to make the connections with engineering/literacy in CSU classes as potential examples for K-12. Participants will have the opportunity to ask questions of the panelists and participate in the discussion via the text chat area.</td>
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<td>2/27/2014</td>
<td>Webcast: Forensic Anthropology: Bone Whispering</td>
<td>6th;7th;8th;9th;10th;11th;12th</td>
<td>Smithsonian</td>
<td><a href="https://qrius.si.edu/science-webcast-schedule">https://qrius.si.edu/science-webcast-schedule</a></td>
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<td><strong>Cost</strong>: <strong>FREE</strong></td>
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<td><strong>Stipend</strong>:</td>
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<td>8AM and 11AM Pacific Time. These interactive webcasts will introduce your students to core science concepts through the lens of Smithsonian research and experts, providing students with positive STEM role models and a connection to science in their lives. Explore the topics in the schedule to access a package of classroom activities, lessons, readings and other related resources that support each webcast program.</td>
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<td>2/28/2014</td>
<td>Tour (1 hour - 9:30 AM) – What does making look like in the classroom?</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th</td>
<td>Lighthouse Community Charter School</td>
<td><a href="http://lighthousecreativitylab.org/professional-development/">http://lighthousecreativitylab.org/professional-development/</a></td>
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<td><strong>Cost</strong>: <strong>FREE</strong></td>
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Tours are a great way to see what making looks like integrated into a classroom. We will discuss the Lighthouse Creativity Lab program, see making in at least one K-12 class, answer questions, and hear a little about your plans.

March 2014

3/1/2014 Short Course -Where have all the Species Gone? Museum of Paleontology
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://ucmp.berkeley.edu/about/shortcourses/reginfo14.php
Cost FREE

Where have all the species gone? The processes and patterns of extinction
Valley Life Sciences Building, UC Berkeley - 9:00 am to 3:30 pm
Throughout Earth's history, biodiversity has been molded by extinction. Today, the study of species survival has taken on new urgency as rapid changes in ecosystems, climate systems, and human populations threaten an increasing proportion of our biota. Join us to learn about the complex web of interacting mechanisms that influence extinction both in deep time and today. We'll explore the physical, biological, and anthropogenic drivers of background and mass extinction, the role of extinction in restructuring communities, and the evolutionary opportunities that extinction events leave in their wake. This short course is cosponsored by the Berkeley Natural History Museums (BNHM) and Science@Cal.

Short Course Speakers
Seth Finnegan, UC Berkeley, Early Paleozoic extinction and ecosystem diversity
Pedro Marenco, Bryn Mawr College, The aftermath of the Permian-Triassic extinction event
Alison Boyer, University of Tennessee, Paleoecology and extinction of Pacific island birds
Tony Barnosky, UC Berkeley, Human-climate interactions as drivers of extinction

3/1/2014 Sowing the Seeds of Wonder: Gardens in Early Childhood-Reg Deadline 2/1 Life Lab Science Program
For Grades: K;PK
http://www.lifelab.org/for-educators/workshops/gcworkshops/
Cost $150

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.

3/1/2014 Saturday Seminar - Building STEAM Bay Area Science Project
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.lawrencehallofscience.org/services_and_expertise/professional_development/saturday_seminar
Cost FREE

In this climate of economic uncertainty, America is once again turning to creativity as the way to ensure a prosperous future. Yet innovation remains tightly coupled with Science, Technology, Engineering and Math – the STEM subjects. Art and Design are poised to transform our economy in the 21st century just as science and technology did in the 20th. Join us as we explore strategies to engage students in STEAM.

Keynote: Emily Pilloton; Emily founded Project H to use design to empower people, amplify the raw brilliance of youth, and to get her hands dirty after too many years in an office. Trained in architecture (UC Berkeley) and product design (SAIC), Emily believes in design as an honest process of building and activism for community benefit. Most days she resides in the Studio H classroom/shop with her high school students, but travels occasionally for lectures and workshops around the world. A California girl, runner, border collie lover, and unwavering optimist, she has appeared on the TED stage and the Colbert Report, and authored the book Design Revolution.

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Printed: 2/16/2014
Professional Development
3/1/2014  LiMPETS Introduction to Rocky Intertidal Monitoring
For Grades: 6th;7th;8th;9th;10th;11th;12th
http://limpetsmonitoring.org/resources_workshops.php
Cost  FREE  Stipend:  $50
San Francisco Bay area: Saturday, March 1, 2014, at Cypress Meadows and Fitzgerald Marine Reserve, San Mateo County,
Learn to participate in this in-depth science education program for students. Participants receive new curriculum,
learn to correctly identify algae and invertebrates, and practice the monitoring methods used in the field.

3/1/2014  TI Alumni Workshop -Using Your Data to Understand the Bay
For Grades: 6th;7th;8th
Cost  FREE  Stipend:  $50
Join us for a morning of gathering and interpreting data from our pier - both from the museum's Wired Pier instruments and from our own investigations using mini data-loggers. These mini-temperature loggers can automatically record data at regular intervals and are great tools for designing your own experiments and testing your ideas while building data analysis skills. We will also explore online water-quality data sets which we'll show you how to use from your school's location and that we can compare to our own collected data during the workshop. What does the data say about what's happening in the Bay? Come find out. ***Sponsored by NOAA B-WET, and co-presented by Sarah Ferner of the National Estuarine Research Reserve (NERR), one of our NOAA partners in this grant.

3/5/2014  Sustainability and Engineering (grades 3 - 5)- 3 days
For Grades: 3rd;4th;5th
Cost  $35  Stipend:
Explore the scientific and engineering practices of the Next Generation Science Standards (NGSS) through the lens of sustainability. Build problem-solving and critical thinking skills through hands-on challenges, and discover how engineering skills apply to more than just building structures. You will leave with ready-to-use activities, as well as plenty of inspiration to create activities of your own.
Special Note: This is a three part workshop taking place on Wednesday March 5, Wednesday March 12, and Wednesday March 19.
In order to participate, you must be able to attend all three sessions.

3/6/2014  Tour (1 hour - 2:00PM AM) – What does making look like in the classroom?
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://lighthousecreativitylab.org/professional-development/
Cost  FREE  Stipend:
Tours are a great way to see what making looks like integrated into a classroom. We will discuss the Lighthouse Creativity Lab program, see making in at least one K-12 class, answer questions, and hear a little about your plans.

3/7/2014  Project WET workshop - Santa Clara
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.watereducation.org/doc.asp?id=1016&parentID=1008
Cost  FREE  Stipend:

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 2/16/2014  Professional Development
Project WET activities are designed to satisfy the goals of educational programs by complementing existing curricula rather than displacing or adding more concepts. Project WET activities provide many opportunities to address curriculum objectives and educational standards. The Project Wet Curriculum and Activity Guide contains over 90 interdisciplinary activities designed for students in grades K-12 and are perfect for use in formal and non-formal education settings.

Location: Santa Clara Valley Water District, San Jose
Sponsored By: Santa Clara Valley Water District
Register: To register, please contact Kathy Machado, Santa Clara Valley Water District at: kmachado@valleywater.org - or (408) 265-2607 ext. 2331

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
http://learningcenter.nsta.org/products/online_courses/VirtualConference.aspx
Cost  Member price: $79  Stipend: $50
Are you looking for practical strategies for integrating the Next Generation Science Standards (NGSS) into your classroom? Join NSTA for an intensive one-day virtual conference to learn how to apply the NGSS practices with K-12 students.
Saturday, March 8, 2014 - 7 a.m. – 3 p.m. PT
Nonmember price: $99
During this web-based professional learning opportunity participants will:
* Explore the practices modeling, explanation and argumentation, and engineering
* Learn about specific strategies by grade level and discipline
* Ask questions of NGSS experts
* Engage in dialogue with science educators from across the country.

3/8/2014 TI Alumni Workshop Modeling / Argumentation  Exploratorium
For Grades: 6th;7th;8th
Cost  FREE  Stipend: $50
With the New Year come new standards and their complexities. We would like to invite you to join us to look at student modeling. At this workshop, we will tackle modeling from different angles. We will explore some of the varied ways that scientists use models and learn a variety of activities that you can use to begin implementing this practice in your classroom. Next, we will do a student activity to dive deeper into the practice of modeling as we build understanding by creating models based on evidence. Finally, you will have some time to see how you can fit this into your curriculum. ***Sponsored by the Arthur Vining Davis Foundations***

3/8/2014 Common Core Round Robin: Math  Resource Area for Teachers (RAFT)
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.raftbayarea.org/workshops
Cost  FREE for members  Stipend: $50
Discover the "WOW" in how hands-on Math leads to creative explorations, and to fun and meaningful associations that support the 8 Common Core Practices for students from Early Education to HS and beyond. Eric will discuss how math equations describe physical phenomenon & why scientists use math to represent physical situations with math as a universal communication tool. Shalek will be making math fun using everyday materials to emphasize number sense and patterning in early ed. Jeanne will help with understanding how mathematical functions associate concrete and abstract relationships in real life scenarios

3/8/2014 Fascinating Fractals and Math  Resource Area for Teachers (RAFT)
For Grades: 5th;6th;7th;8th
http://www.raftbayarea.org/workshops
Cost  FREE for members  Stipend: $50
Defined by repeating patterns that are self-similar on every scale, fractals are found in nature, as branching trees, watershed drainage patterns, ferns and broccoli. This workshop will demonstrate how fractals can be related to Sierpinski's gasket, to patterns, to equations, to graphing, and more.
3/8/2014 Patterns in Art and Science (grades preK - 2) - 2 days  
California Academy of Sciences  
For Grades:  K;1st;2nd;PK  
Cost  $35  
Stipend:  
Trace and interpret patterns in nature, art, and data. Explore how they can help us see trends and develop thoughtful questions about what patterns are and how they help us define the world. Discover how this cross-cutting concept from the Next Generation Science Standards (NGSS) can connect science, art, and other curricular areas. Offered in collaboration with the de Young Museum.  
Special Note: This is a two part workshop taking place on Saturday March 8, and Saturday March 22. In order to participate, you must be able to attend both sessions.

3/13/2014 Lighthouse Tour + Program Planning + Making  
Lighthouse Community Charter School  
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://lighthousecreativitylab.org/professional-development/  
Cost  $54  
Stipend:  
This session is a great way to take your making program to the next level, whether you are just getting started or you are looking to grow. During this session, you will see making integrated into a classroom, discuss our programs and models for integrating making, participate in a project yourself, and work on a plan for your own project. The focus of this session is working with you to figure out what will work for your classroom, program, or site. Attend as an individual or a team. Lunch provided.

Smithsonian  
For Grades:  6th;7th;8th;9th;10th;11th;12th  
https://qrius.si.edu/science-webcast-schedule  
Cost  FREE  
Stipend:  
8AM and 11AM Pacific Time. These interactive webcasts will introduce your students to core science concepts through the lens of Smithsonian research and experts, providing students with positive STEM role models and a connection to science in their lives. Explore the topics in the schedule to access a package of classroom activities, lessons, readings and other related resources that support each webcast program.

3/15/2014 Learn to Make - Arduino  
Lighthouse Community Charter School  
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://lighthousecreativitylab.org/professional-development/  
Cost  $54  
Stipend:  
(Saturdays, 10 am – 1 pm) In a Learn to Make session, you will build your expertise in a specific skill set. Most of the session will be spent creating something. During the session we will mix in discussion about how to bring the activity, or related activities, to the classroom. For example, in a beginning Arduino session, you will work through the activities we use in our high school class and then complete a project using your new skills! You will leave with your creation or a basic kit to get you started back at your own site. Lunch provided.

3/15/2014 Infographics in the Classroom – 2 days  
California Academy of Sciences  
For Grades:  9th;10th;11th;12th  
Cost  $35  
Stipend:  
NEW! All scientists tell stories with their data. In this two-part workshop, discover how to use infographics, visually appealing data stories, to help your students engage in many of the scientific practices. Visualizing science data not only helps us see patterns in complex data, but also can be an entertaining way to tackle the new scientific practices of the Next Generation Science Standards (NGSS). Leave with concrete ways to bring real-world data and infographics into your own classroom.
* Special Note: This is a two part workshop taking place on Saturday March 1, and Saturday March 15. In order to participate, you must be able to attend both sessions.

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed:  2/16/2014  
Professional Development
TI Alumni - Be a Bay Detective! Explore Issues Affecting SF Bay & Ocean Health

Exploratorium
For Grades: 6th;7th;8th
Cost FREE Stipend: $50

Come investigate what is happening in our bay and ocean by looking at trends in measurable chemical and biological properties. We’ll focus on the mechanisms and instruments that help us detect pollutants in the San Francisco Bay. We will also explore the water quality of local coastal environments and how pathogens migrate through watersheds to infect marine mammals. ***Please note that this workshop will meet at the Gulf of the Farallones National Marine Sanctuary Pier Classroom, Crissy Field, Presidio in SF. Directions will be given to those who sign up. Sponsored by NOAA B-WET, and co-presented by Justin Holl of the GFNMS, one of our NOAA partners in this grant.

Spring 2014 (Mar 17 - Apr 27) - Online PD

American Museum of Natural History
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://learn.amnh.org/
Cost 495 Stipend:

Spring 2014 - Session 2 - March 17, 2014 - April 27, 2014
Climate Change, Earth: Inside and Out, Evolution, Genetics, Genomics, Genethics, The Diversity of Fishes, Water

Teacher Workshops Chemistry of Crystals

Math Science Nucleus
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://msnucleus.org/classes/teacherworkshop.html
Cost $15 per person (SPECIAL: first 15 teachers free*) Stipend:

Learn how to make simple crystals (borax), crystal gardens, and learn how to make Ice Cream in a Bag and the science behind it (you can eat it also). Crystal making, symmetry, water cycle

GEMS Associate training

Lawrence Hall of Science
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
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.

The Growing Classroom: Intro. to Garden Based Learning - reg by 3/6/14

Life Lab Science Program
For Grades: 2nd;3rd;4th;5th;6th
http://www.lifelab.org/for-educators/workshops/gcworkshops/
Cost $300 Stipend:

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 2/16/2014 Professional Development
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.

3/21/2014 Mini Maker Fair @ Lighthouse
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://lighthousecreativitylab.org/professional-development/
Cost FREE
Stipend:
Lighthouse is hosting our very own Mini Maker Faire - join us and checkout the making in our school!

3/22/2014 Beyond the Four Walls in Redwood City
For Grades: K;1st;2nd
http://www.raftbayarea.org/workshops
Cost $20 for members; $35 for non-members
In Beyond the Four Walls teachers will learn how to use the environment to teach basic lessons to enhance learning. Using cross-curricular methods in art, science, math and language you can incorporate creative thinking, classification, fine motor skills, gross motor skills, and open ended projects. INSTRUCTOR: Shalek Chappill has worked with children of all ages, backgrounds, and abilities.

3/22/2014 TI Alumni Workshop - Breaking Up is Hard to Do: Examples of Weathering & Exploratorium
For Grades: 6th;7th;8th
Cost FREE
Stipend: $50
Come and join us to to do activities in the lab dealing with weathering and erosion. Taking what we learned from our inside lab experience we will then go on a short field trip just outside the museum to look for evidence of urban erosion and weathering patterns. It is, after all, a concrete jungle out there.

3/22/2014 Create and Discover Matter
For Grades: K;1st;2nd
http://www.raftbayarea.org/workshops
Cost $20 for members; $35 for non-members
We will create bags of solids and create bottles of liquids and discover differences in both. We will discuss properties of solids and liquids and soak solids in water to see them change and talk about evaporation. Is oblique a solid or a liquid? We will make this and find out. In class we also talk about air as a gas and discuss ways to show the students that air has mass. Lot's of great activities to cover!

For Grades: 6th;7th;8th;9th;10th;11th;12th
https://qrius.si.edu/science-webcast-schedule
Cost FREE
Stipend:
8AM and 11AM Pacific Time. These interactive webcasts will introduce your students to core science concepts through the lens of Smithsonian research and experts, providing students with positive STEM role models and a connection to science in their lives. Explore the topics in the schedule to access a package of classroom activities, lessons, readings and other related resources that support each webcast program.

3/29/2014 TI Alumni Workshop -Perception and the Brain
For Grades: 6th;7th;8th
Cost FREE
Stipend: $50
How does the brain work? The operation of the human brain can be explored by looking at exhibits on perception. We’ll look at what is known about how the brain works by experiencing illusions experience by different senses, and looking at how these illusory perceptions are explained by current models of how neurons in the brain work. Come use the Exploratorium’s rich collection of perception exhibits and build a few “snacks” on perception as well.

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Printed: 2/16/2014 Professional Development
From Forest to Bay... Project WET - Palo Alto

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.watereducation.org/doc.asp?id=2418&parentID=1008

Cost  FREE

Stipend:

SAN FRANCISCO BAY AREA K - 12 EDUCATORS! Environmental Volunteers invite you to join us for this FREE workshop in the wonderful setting of the Palo Alto Baylands Nature Preserve. This workshop will introduce you to the interdisciplinary, Common Core aligned activities of Project WET and Project Learning Tree through hands-on experience, while demonstrating the use of the activities to engage learners in concepts and topics relevant to the San Francisco Bay area. There is a $20 registration fee for each of the From Forest to Bay workshops - or $30 to attend both!

Our workshops maximize the time engaged in hands-on activities, help educators become familiar with teacher designed features of the guide and provide opportunities to bounce implementation ideas around with fellow educators. Every Project WET activity was created by teachers for teachers and each incorporates nationally recognized education principles and practices. Project WET activities incorporate low cost materials and provide step-by-step instructions making the activities very popular with California educators of all levels of teaching experience. In addition to Common Core, Project WET activities are correlated to Next Generation Science Standards and individual units of the California Education & the Environment Initiative (EEI).

All About Carbon:

For Grades: 3rd;4th;5th
http://www.raftbayarea.org/workshops

Cost  $20 for members; $35 for non-members

Stipend:

Carbon? It's everywhere and in everything that is/was alive. It holds our bodies together, it lets us write (pencils) and shine (diamonds). When it combines with oxygen (carbon dioxide), it builds sugars (photosynthesis), and when too much is released into the atmosphere, it causes global warming. Using solid science, engaging animations, RAFT kits, and hands-on demonstrations, you'll be able to teach your students about the carbon cycle and our own carbon footprints.

Research Engineer

For Grades: 3rd;4th;5th;6th;7th;8th
http://www.raftbayarea.org/workshops

Cost  $20 for members; $35 for non-members

Stipend:

The new NGSS standards place emphasis upon inquiry and exploration rather that learning facts. In this workshop we'll use a number of RAFT activities to explore the process of engineering to develop outcomes in simple cars, rockets, airplanes, and other things to come up with the best desired performance.

Green Schools National Conference - Sacramento

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

Cost  $350

Stipend:

“Working Together for Healthy, Sustainable Schools”. Leaders from across the country will share best practices and work to define solutions to address barriers to transforming all schools into green, healthy, and sustaining learning communities. Topics will include curriculum that advances sustainability skills and knowledge for the 21st century; stewardship and service learning; sustainable facilities design, management, and operations; health and well being; and creating strong partnerships and networks.

April 2014
4/10/2014  Webcast: Quantifying Biodiversity: Life in One Cubic Foot  Smithsonian
For Grades: 6th;7th;8th;9th;10th;11th;12th
https://qrius.si.edu/science-webcast-schedule
Cost  FREE  Stipend:
8AM and 11AM Pacific Time. These interactive webcasts will introduce your students to core science concepts through the lens of Smithsonian research and experts, providing students with positive STEM role models and a connection to science in their lives. Explore the topics in the schedule to access a package of classroom activities, lessons, readings and other related resources that support each webcast program.

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://lighthousecreativitylab.org/professional-development/
Cost  FREE  Stipend:
Tours are a great way to see what making looks like integrated into a classroom. We will discuss the Lighthouse Creativity Lab program, see making in at least one K-12 class, answer questions, and hear a little about your plans.

4/12/2014  Cal Day Open House - April 12, 2014  University of California, Berkeley (UC Berkeley)
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.

4/12/2014  Learn to Make - Woodworking  Lighthouse Community Charter School
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://lighthousecreativitylab.org/professional-development/
Cost  $54  Stipend:
(Saturdays, 10 am – 1 pm) In a Learn to Make session, you will build your expertise in a specific skill set. Most of the session will be spent creating something. During the session we will mix in discussion about how to bring the activity, or related activities, to the classroom. For example, in a beginning Arduino session, you will work through the activities we use in our high school class and then complete a project using your new skills! You will leave with your creation or a basic kit to get you started back at your own site. Lunch provided.

4/12/2014 - 4/13/2014  Wild in the Wilderness: Environmental Education & Natural History Intensive  Clem Miller Environmental Education Center at Point Reyes National Seashore
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.ptreyes.org/school-program/teacher-group-leader-training
Cost  $100, or $90 for members of the Seashore Association  Stipend:
Learn how to create a unique program that enables your class or group to deepen their understanding and appreciation of and connection to each other and the natural world. Designed for teachers, program coordinators, youth leaders, homeschoolers and community facilitators, course participants will enjoy 20 hours of intensive natural history & environmental education training led by a team of dynamic naturalists and educators who employ hands-on, field-based learning experiences that engage and stimulate learners. Topics include: Animal tracking, beginning birding, herpetology, identifying native plants & learning their stories & uses, planning a night hike, leading a campfire, storytelling, environmental education tips, techniques & tools.

4/16/2014  Teacher Workshops Protozoa, Invertebrates, and Vertebrates  Math Science Nucleus
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://msnucleus.org/classes/teacherworkshop.html
Cost  $15 per person (SPECIAL: first 15 teachers free*)  Stipend:
Learn about the native organism in the East Bay. How to effectively use hand lenses, and microscopes, and bug collecting techniques to turn your students to think about science every time they see a “bug.”
4/17/2014  Lighthouse Tour + Program Planning + Making

Lighthouse Community Charter School

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

http://lighthousecreativitylab.org/professional-development/

Cost  $54

Stipend:

This session is a great way to take your making program to the next level, whether you are just getting started or you are looking to grow. During this session, you will see making integrated into a classroom, discuss our programs and models for integrating making, participate in a project yourself, and work on a plan for your own project. The focus of this session is working with you to figure out what will work for your classroom, program, or site. Attend as an individual or a team. Lunch provided.

4/21/2014  Online Course (Apr 21-May 9) Connecting Science to Common Core With Pi

National Science Teachers Association

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

http://learningcenter.nsta.org/products/online_courses/NGSS_ShortCourse.aspx

Cost  Member price: $179

Stipend:

Moving Toward NGSS: Connecting Science to Common Core With Picture-Perfect Science Lessons. This short course will provide practical insights into connecting science and literacy standards in elementary classrooms. Instructor: Emily Morgan, NSTA Press Author (Picture-Perfect Science series, Teaching Science Through Trade Books, and Next Time You See children’s book series)

Course duration: April 21 – May 9, 2014

Nonmember price: $199

4/24/2014  Webcast: Deep-Reef Biodiversity: Exploring the Unexplored

Smithsonian

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

https://qrius.si.edu/science-webcast-schedule

Cost  FREE

Stipend:

8AM and 11AM Pacific Time. These interactive webcasts will introduce your students to core science concepts through the lens of Smithsonian research and experts, providing students with positive STEM role models and a connection to science in their lives. Explore the topics in the schedule to access a package of classroom activities, lessons, readings and other related resources that support each webcast program.

4/26/2014  Forces Around Us

Resource Area for Teachers (RAFT)

For Grades:  4th;5th

http://www.raftbayarea.org/workshops

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

Stipend:

Forces abound around us. Forces make things move or stop and are fun to involve in play for younger children. So let’s do some activities involving forces to teach about them and understand a little about how we use forces in our lives. RAFT has a number of fun Activity Kits teaching about forces; we’ll explore these.

4/26/2014  California Geology 101

Resource Area for Teachers (RAFT)

For Grades:  4th;5th;6th

http://www.raftbayarea.org/workshops

Cost  $20 for members; $35 for non-members

Stipend:

A quick, practical, teacher-friendly guide to our very complicated Californian geology—above and below the surface—complete with hands-on activities and demonstrations using RAFT kits and idea sheets. Topics will include explaining major features of California geology (including mountains, faults, volcanoes) in terms of plate tectonics, demonstrating that water running downhill is the dominant process in shaping our landscape (using a stream table), identifying types of California rocks and minerals and their uses, and understanding our natural resources, sustainable, renewable, and nonrenewable. Geared to grades 4-6, but concepts may be adapted to higher and lower grade levels.

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Printed: 2/16/2014  Professional Development
4/26/2014  **Round Robin: Coaching and Mentoring**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
[http://www.raftbayarea.org/workshops](http://www.raftbayarea.org/workshops)

**Cost**  
FREE for members

**Stipend:**

Eric will be discussing how to leverage the Common Core ELA and Math standard connections cited in the Next Generation Science Standards to provide students with explicit examples of how each subject is relevant to another. He will incorporate Norman Webb’s Depth of Knowledge model and use a RAFT kit as a tool to demonstrate his ideas. Jeanne will share ways that science is connected to other subjects through the use of mathematics. ECE teachers often do not know which science concepts to explore with young children or are hesitant to explore them for other reasons. To address this issue, Shalek will discuss ideas and share her experiences to encourage early childhood educators to explore science with preschool students.

4/29/2014  **Plant It, Grow It, Eat It - Enhancing Nutrition Education - reg by 4/15/14**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th  
[http://www.lifelab.org](http://www.lifelab.org)

**Cost**  
$150

**Stipend:**

Make the connection from seed to table in this fun and delicious one-day workshop. Explore ways to teach nutrition through gardening, harvesting and meal preparation in Life Lab’s Chez Panisse Garden Kitchen. You’ll learn how effective ways to encourage kids grades 2-8 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.

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**May 2014**

5/1/2014  **Tour (1 hour - 2:00PM AM) – What does making look like in the classroom?**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
[http://lighthousecreativitylab.org/professional-development/](http://lighthousecreativitylab.org/professional-development/)

**Cost**  
FREE

**Stipend:**

Tours are a great way to see what making looks like integrated into a classroom. We will discuss the Lighthouse Creativity Lab program, see making in at least one K-12 class, answer questions, and hear a little about your plans.

5/3/2014  **Learn to Make -**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
[http://lighthousecreativitylab.org/professional-development/](http://lighthousecreativitylab.org/professional-development/)

**Cost**  
$54

**Stipend:**

(Saturdays, 10 am – 1 pm) In a Learn to Make session, you will build your expertise in a specific skill set. Most of the session will be spent creating something. During the session we will mix in discussion about how to bring the activity, or related activities, to the classroom. For example, in a beginning Arduino session, you will work through the activities we use in our high school class and then complete a project using your new skills! You will leave with your creation or a basic kit to get you started back at your own site. Lunch provided.

5/10/2014  **TI Alumni Workshop -Flax: Using Art Supplies in Science**  
For Grades: 6th;7th;8th  

**Cost**  
FREE

**Stipend:**  
$50

Join us at the FLAX Art & Design. Learn how to use art stores and to teach science. We will show you how to use common, inexpensive art supplies to create fun science activities. In lieu of a stipend, FLAX will be providing supplies for our workshop and some other goodies for you!
5/15/2014  Webcast: Core Geology: Earth's Deep Interior  Smithsonian  
For Grades:  6th;7th;8th;9th;10th;11th;12th  
https://qrius.si.edu/science-webcast-schedule  
Cost  FREE  Stipend:  
8AM and 11AM Pacific Time. These interactive webcasts will introduce your students to core science concepts through the lens of Smithsonian research and experts, providing students with positive STEM role models and a connection to science in their lives. Explore the topics in the schedule to access a package of classroom activities, lessons, readings and other related resources that support each webcast program.

For Grades:  1st;2nd;3rd;4th;5th  
http://wildlifeassociates.org/index.html  
Cost  FREE  Stipend:  
Become more confident in teaching science to your students. Learn step-by-step effective story telling techniques that engage your students and make science relevant and fun. Receive the “Science Teacher’s Toolkit” that will transform the way students learn through creating mysteries to be solved and instilling excitement for discovering and exploring science.

5/22/2014  Lighthouse Tour + Program Planning + Making  Lighthouse Community Charter School  
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://lighthousecreativitylab.org/professional-development/  
Cost  $54  Stipend:  
This session is a great way to take your making program to the next level, whether you are just getting started or you are looking to grow. During this session, you will see making integrated into a classroom, discuss our programs and models for integrating making, participate in a project yourself, and work on a plan for your own project. The focus of this session is working with you to figure out what will work for your classroom, program, or site. Attend as an individual or a team. Lunch provided.

5/26/2014  Summer 2014 #1- (May 26 - July 6) - Online PD  American Museum of Natural History  
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://learn.amnh.org/  
Cost  495  Stipend:  
Summer 2014 - Session 1 - May 26, 2014 - July 6, 2014  

5/27/2014  Nature Day Camp Training for Day Camp Leaders  East Bay Regional Park District  
For Grades:  K;1st;2nd;3rd;4th;5th  
http://tinyurl.com/lb32ogv  
Cost  $35  Stipend:  
Summer Camp Season is fast approaching! Learn fresh ideas for your summer camps from EBRPD Naturalists. We will present fun and exciting hands-on activities, games and skills that can be easily integrated into your nature and science camp curriculum. The training meets at the Sunol-Ohlone Regional Wilderness, Old Green Barn Visitor Center.

June 2014

6/5/2014  Webcast: Paleobotany: Climate Change Past and Present  Smithsonian  
For Grades:  6th;7th;8th;9th;10th;11th;12th  
https://qrius.si.edu/science-webcast-schedule  
Cost  FREE  Stipend:  

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Printed:  2/16/2014  Professional Development
8AM and 11AM Pacific Time. These interactive webcasts will introduce your students to core science concepts through the lens of Smithsonian research and experts, providing students with positive STEM role models and a connection to science in their lives. Explore the topics in the schedule to access a package of classroom activities, lessons, readings and other related resources that support each webcast program.

For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://lighthousecreativitylab.org/professional-development/
Cost  FREE
Stipend:
Tours are a great way to see what making looks like integrated into a classroom. We will discuss the Lighthouse Creativity Lab program, see making in at least one K-12 class, answer questions, and hear a little about your plans.

6/15/2014 - 6/21/2014  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.

For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th
http://www.oaec.org/school-garden
Cost  $800
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.

For Grades:  6th;7th;8th
http://www.montereybayaquarium.org/lc/teachers_place/edu_program_cycles.aspx
Cost  FREE
Stipend:  $50/day
Are you looking for dynamic experiences to invigorate your teaching practice and your students' learning? Are you looking to enhance your curriculum with student-driven projects that support Next Generation Science Standards?

Invigorate your teaching practice and your students' learning through student-driven projects that integrate Next Generation Science Standards and the Common Core. Project-based science supports the shift to more student-centered teaching and the hands-on, collaborative nature of projects provides a learning experience that models best science-teaching practices. Engage students in authentic inquiry-based science as they investigate conservation issues connected to their lives and their environment.

This free institute provides opportunities to:
Collaborate with colleagues and learn about the project-based science process and how it fits into your classroom.
Integrate iPads and Web 2.0 applications into your curriculum through local field sites.
Go behind the scenes to learn about our current research projects, new exhibits and the operation of a world-class aquarium.
Engage in discussions with scientists and experts in the field.
Network with other middle school teachers for support and advice throughout the year
Follow-up Sessions Saturdays: October 25, 2014; January 10, 2015; April 18, 2015

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Printed:  2/16/2014  Professional Development
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.

Belize EcoTour

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

http://www.savethefrogs.com/ecotours/

Cost $1995.00

Stipend:

Teachers seeking to fulfill professional development or continuing education requirements can claim our 2014 Eco-tour to Belize as a tax-deduction

You are cordially invited to join SAVE THE FROGS! on a 10-day eco-tour of Belize in June 2014! Belize is a wonderful little country located east of Guatemala and nestled beneath the Yucatán Peninsula of Mexico. Like many countries in Central America, Belize is a hotspot of biodiversity. Belize is home to at least 37 amphibian species, as well as an array of bats, birds, lizards, corals and other amazing wildlife. The trip will be led by SAVE THE FROGS! Advisory Committee Chairman Michael Starkey, who has participated in, coordinated and led Belize eco-tours for 4 years! We will also be accompanied by SAVE THE FROGS! Ecologist Kathlyn Franco as well as Mayan naturalists and field guides. Group size is limited to 19 participants.

July 2014

Summer 2014 #2- (July 7-Aug 17) - Online PD

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

http://learn.amnh.org/

Cost 495

Stipend:

Summer 2014 - Session 2 - July 7, 2014 - August 17, 2014
Climate Change, Earth: Inside and Out, Evolution, In the Field with Spiders, Water, Genetics, Genomics, Genethics, The Diversity of Fishes, Space, Time and Motion

School Garden Training

For Grades: 9th;10th;11th;12th

http://www oaec org school garden

Cost $800

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.

Splash Zone Teacher Institute

For Grades: K;1st;2nd

http://www.montereybayaquarium.org/lc/teachers_place/edu_program_splashzone.aspx

Cost FREE

Stipend:

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

Printed: 2/16/2014  Professional Development
The Aquarium's Splash Zone Teacher Institute is specifically designed for teachers of young children. This free program provides opportunities to:
* Discover new ideas about teaching science and inquiry.
* Experience inquiry-based activities that support the Common Core and Next Generation Science Standards.
* Implement new teaching strategies and standards-based activities.
* Integrate language arts, math, technology, social studies and science.
* Wonder, discover, share, learn and play!
* Network with Aquarium educators and colleagues.
* Stay on campus at the beautiful Stevenson School in Pebble Beach, California.

Follow-up Sessions
November 22, 2014; February 21, 2015; May 9, 2015

**Forestry Institute for Teachers - Shasta County**

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

**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.

**Summer Institute for Middle School Science Teachers**

For Grades: 6th;7th;8th

**Cost:** FREE including travel & hotel

**Stipend:** $2000

July 7-18, 2014. in Gaithersburg, MD. The National Institute of Standards and Technology (NIST) Summer Institute for Middle School Science Teachers is a two-week workshop for middle school science teachers featuring hands-on activities, lectures, tours, and visits with NIST scientists and engineers in their laboratories. Teachers who participate in the NIST Summer Institute gain:
* Increased understanding of the subjects they teach
* Increased understanding of how scientific research is performed
* Materials and resources to implement what they learned at NIST in their classrooms
* Increased enthusiasm for science
* A network of scientists and engineers at NIST with whom to consult

**Forestry Institute for Teachers - Humboldt County**

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

**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.

**Geoscape Bay Area for Earth Sciences Teachers**

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

**Cost:** $50 deposit

**Stipend:** $100

July 14-17 and July 21-24, 2014 - (Monday through Thursday, all day) Learn about current scientific research and understanding of the local geoscape. A geoscape is a way to look at the geological landscape - water resources, natural hazards, and earth resources. This workshop is to enhance your skills, confidence, and knowledge of Earth sciences and invigorate classroom instruction, aligned with California State content standards. You will be taught to use the Quake-catcher Network which turns your classroom computer into a seismometer. Special this summer, you will learn about climate change in California and the climate change curriculum. During the 8-day summer workshop, there will be lab time where you will create curriculum and materials for the coming school year that draw on what you have learned in the workshop. Teachers are supported by experts in content and pedagogy, and are provided with specific tasks that connect to the workshop. In addition, you will be introduced to teaching through evidence and argument as a pedagogical tool. Discussions and strategies for adapting instruction for English language learners are integrated across professional development courses and lab time.

Continuing Education Units (3 units available for $75) (quarter credits, not semester credits)

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Printed: 2/16/2014  
Professional Development
2014 Summer Teacher Institute Workshops  
For Grades: 6th;7th;8th;9th;10th;11th;12th  
http://www.exploratorium.edu/education/teacher-institute  
Cost: Stipend available  
Stipend: $1000  
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.

Coastal Systems Teacher Institute  
For Grades: 3rd;4th;5th  
http://www.montereybayaquarium.org/lc/teachers_place/edu_program_coastalsystems.aspx  
Cost: FREE  
Stipend: $50/day  
The Aquarium's Coastal Systems Teacher Institute is specifically designed for teachers of 3rd through 5th grade students. This free institute provides opportunities for teachers to:  
* Engage in inquiry-based activities that support the Common Core and Next Generation Science Standards.  
* Explore, question, investigate, collaborate and create.  
* Integrate language arts, math and social studies with science content and process skills.  
* Network with Aquarium educators and colleagues from around California.  
* Stay on campus at the beautiful Stevenson School in Pebble Beach, California  
Follow-up Sessions Saturdays: October 11, 2014; January 24, 2015; May 16, 2015

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

August 2014

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).

Techbridge Summer Training Institute 2014  
For Grades: 5th;6th;7th;8th;9th;10th;11th;12th  
http://www.techbridgegirls.org/index.php?id=31  
Cost: $750 early bird  
Stipend:
The Institute focuses on the development of STEM educators and offers strategies and curriculum for engaging girls in science, technology, and engineering. We will explore science, technology and engineering through inquiry-based activities. Techbridge’s experienced staff will guide you through:

- Recruiting and engaging girls in a STEM program
- Training on Techbridge’s hands-on curriculum for grades 5-12
- Planning field trips and visits with role models
- Supporting family outreach
- Developing STEM facilitation skills
- Integrating career exploration into your programming

Who should come? Teachers, after-school program staff, museum educators, youth development leaders, and any others interested in promoting girls in STEM.

**Galileo Investigates the Solar System**

**Astronomical Society of the Pacific**

8/2/2014 - 8/3/2014

For Grades: 3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

http://www.astrosociety.org/education/asp-annual-meeting/

**Cost** $80 Early Bird rate through July 4

**Stipend:**

Explore the solar system through classroom-tested, standards-based, hands-on activities. Discover investigations and techniques to help teach earth and space science in the context of the Next Generation Science Standards and make connections with the Common Core.

Participants receive a wealth of teaching resources, including The Universe at Your Fingertips 2.0 DVD-ROM (retail value $30), a large collection of resources for teaching astronomy. Part of the 125th Annual Meeting of the Astronomical Society of the Pacific.
Professional Development

By Arrangement at Your School or Available Ongoing on Your Own

By Arrangement

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.

Teach the Teachers - How to use the Bay Model with Your Class

Bay Model Visitor Center

http://www.spn.usace.army.mil/Missions/Recreation/BayModelVisitorCenter.aspx

Your personal tour is available year round to any teacher or group of teachers that want to conduct their own guided tours of the Bay Model for their students. Ranger Linda M. Holm will personally meet educators either on a one-on-one basis or as a group at their convenience. Teachers can call our main number: 415-289-3007 to set up an appointment to meet with Ranger Linda. Hours: Tuesday through Saturday 9AM - 1:30 PM.

* Educators will get a guided tour of the facility as if I was conducting an educational program for their class. It will be grade and subject specific based on the teacher’s requests. They can use the Bay Model Activity Tour, located on our website as a template
* Teachers will learn how to provide comprehensive educational programs using the art of interpretation to convey their message.
* Programs are designed to foster critical thinking.
* Teachers are not locked into the 10 AM or 1 PM ranger guided tour program hours and can conduct programs at a time more convenient for them between the hours of 9 AM and 4 PM. Teachers are still obligated to call the Bay Model and let us know the time of their arrival and with the number of students and chaperons. Self guided tour must not conflict with scheduled ranger led tours.
* Teachers can use the facility as an extension of their classrooms. There is no limit on how often a teacher can use the facility for learning purposes.
* Rangers will be available to answer any questions that might arise.

Project WILD and Project Aquatic Wild

CA Dept of Fish and Wildlife, Central Coast Region

http://www.dfg.ca.gov/

Project WILD is a wildlife-based conservation and environmental education program that fosters responsible actions toward wildlife and related natural resources. Project WILD Activity Guides provide curriculum especially designed for educators of kindergarten through high school youth. Professional development training and educational materials are available through workshop participation.

Project WILD core materials include three activity guides for educators: the Project WILD K-12 Activity Guide highlights wildlife and habitat, Project WILD Aquatic Education Activity Guide emphasizes aquatic wildlife and aquatic ecosystems, Science and Civics: Sustaining Wildlife for grade 9-12 involves inquiry investigations and decisions affecting people, wildlife and their shared habitat.

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Printed: 2/13/2014

Bring Professional Development to your School
Professional Development at your School
http://www.calacademy.org

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

Whole School Science Professional Development
http://www.crsScience.org

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

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

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

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

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

Using Video and Web resources in your classroom
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 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

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Printed: 2/13/2014

Bring Professional Development to your School
Customized Workshop  
Life Lab Science Program  
http://www.lifelab.org

Life Lab trainers will work with you to develop a customized workshop to meet your specific needs. Resolving issues with your garden site, working effectively with the special needs of your student population, and facilitating parent/community involvement are some of the many topics on which to focus your workshop.

Discovery Voyage on the Bay  
Marine Science Institute  
http://www.sfbaymsi.org

The day begins aboard the Institute's research vessel, the ROBERT G. BROWNLEE, participating in hands-on activities that examine the fish, plankton, benthic invertebrates, and physical oceanography of an estuarine ecosystem. The afternoon is spent in our Discovery Classroom, exploring curriculum ideas and activities while developing lesson plans that bring science to your curriculum.

Custom Designed Workshop - many topics  
Oakland Zoo  
http://www.oaklandzoo.org

Zoo staff can design customized workshops to fit your teaching needs covering a broad range of science related subject areas. The current programs include:

* Rain Forest Review (Grades 3-8) - A closer look at essential functions of a tropical rain forest;
* Suitcase For Survival (Grades 3-12) - Learn to use the U.S. Fish and Wildlife biofacts to teach about endangered animals and the illegal wildlife trade;
* There Are Treasures At Your Zoo (Grades K-8) - Use the classic treasure hunt to learn about adaptations, habitats, and animals;
* Biodiversity (Grades 6-12) Learn what biodiversity is; the threats facing it and what you can do;
* Conservation (Grades 5-12) Learn about conservation through group activities and small group discussions taken from Project Wild.
* Habitats and Adaptations (Grade6-12) Learn about animal adaptations during a scavenger hunt in the zoo!

Staff Development Workshops  
Randall Museum  
http://www.randallmuseum.org/

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

RAFT Outreach Workshops  
Resource Area for Teachers (RAFT)  
http://www.raft.net

RAFT offers a variety of hands-on science workshops for teachers. They can be scheduled at your school. Topics include - THE POWER OF HANDS-ON TEACHING, On The Move: Science Workshops: (Catch a Wave , A Model Science Class, Let's Mix Things Up , Attractive Science! Exploring Magnetism ). Price includes teaching kits

Teacher Training/Team Building - Physical Sciences  
Rock-It Science  
http://www.rockitscience.org

Teachers, learn to do Rock-it Science lessons yourself. Our group experiments also make great team building/diversity training activities. We’ll customize a program to suit your needs. Pick from a wide variety of Physical Science topics (Matter, Energy, Chemistry, Force and Motion, Simple Machines, Electricity). Maximum: 40 teachers

Price: $250/hr, minimum 3 hrs

Group Workshops  
San Francisco Zoo  
http://www.sfzoo.org

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

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

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

Printed: 2/13/2014  
Bring Professional Development to your School
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 hands-on classroom materials that support teaching activities from the guide.

Private Workshops
http://www.thewatershedproject.org
The Watershed Project

One or multiple day workshops can be scheduled with different focuses. Teachers can choose to receive professional development in watershed educational standards, or learn to apply curriculum units to local environments. Facilitators can also demonstrate a field study or mapping with students.

Using Technology to Meet California State Standards!
http://www.tomsnyder.com
Tom Snyder Productions

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

Ongoing

Seminars on Science - Online Courses for Educators
http://learn.amnh.org/
American Museum of Natural History

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.

Online Teacher Professional Development
https://www.coursera.org/courses?cats=teacherpd
Coursera offers a wide range of courses designed for teacher professional development.

School of Professional Studies
http://ce.fresno.edu/cpd/courses/
Fresno Pacific School of Professional Studies

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."

Web Based Professional Development
Heinemann

Heinemann's webinar content is developed to help educators meet curricular standards. Live webinars deliver superior PD with no travel costs, and participants interact directly with our authors and consultants on crucial topics to enhance expertise.
* Heinemann's webinars offer a user-friendly, convenient format and the option for educators to gather as a group at school or to participate individually from home.
* Typical webinar series consist of five clock hours of streaming webcast including live discussion with the presenter, video demonstrations, presentation materials, and access to archived recordings.
* CEU credit is awarded for the completion of our webinar series.
* Individual tuition for our author-led and consultant-led webinar series is $219.00 per person. Please call for group pricing discount information.

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

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Bring Professional Development to your School
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
www.scienceteacher.org
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.

Online Professional Development Workshops
http://www.pbslearningmedia.org/
PBS Learning Media offers free online professional development on lots of different educational topics.
Teacher Grants: Specific Deadlines

February 2014

2/27/2014

Ultimate Cool Science Day Sweepstakes

Discovery Education

http://www.siemensscienceday.com/enter_sweepstakes.cfm

Can submit an 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.

2/28/2014

The Richard C. Bartlett Environmental Education Award

National Environmental Education Foundation

http://www.neefusa.org/bartlettaward.htm

The Richard C. Bartlett Environmental Education Award is awarded annually to an outstanding educator who has successfully integrated environmental education into his or her daily education programs. The award is given to an educator who can serve as an inspiration and model for others.

2/28/2014

Presidential Innovation Award for Environmental Educators

US EPA

http://www2.epa.gov/education/presidential-innovation-award-environmental-educators

The Presidential Innovation Award for Environmental Educators recognizes outstanding kindergarten through grade 12 teachers who employ innovative approaches to environmental education and use the environment as a context for learning for their students. Up to two teachers from each of EPA's 10 regions, from different states, will be selected to receive this award. The White House Council on Environmental Quality (CEQ), in partnership with the U.S. Environmental Protection Agency (EPA) administers this award to nationally honor, support and encourage educators who incorporate environmental education in their classrooms & teaching methods.

2/28/2014

SIGMS Technology Innovation Award

International Society for Technology in Education

http://www.iste.org/membership/awards-recognition/awarddetail?AwardTypeID=8

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 2014

3/1/2014

Educator Achievement Award 2014 - nominations open

AIAA Foundation


Date Approximate. Every two years, the AIAA Foundation recognizes up to seven outstanding educators for their accomplishments in exciting K-12 students about math and science and preparing them to use and contribute to tomorrow's technologies.

3/4/2014

We Can Change the World Challenge

Siemens

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.

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Printed: 2/16/2014

3/6/2014 Grants for Berkeley USD only

http://www.indulcijubilo.org/idjapplication.html

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.

3/7/2014 Mantis Tiller Awards

http://grants.kidsgardening.org/2014-mantis-tiller-award

$350 value in garden equipment

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

3/7/2014 Waste Reduction Grant

http://www.altamonteab.org/

$500-$50,000

The objectives of the Education Advisory Board are to promote waste prevention and recycling, job training and education through:

* Waste prevention and recycling programs that serve schools (recycling supplies, program materials and other education activities such as field trips);
* Community education through waste prevention and recycling education programs;
* Job training in the field of waste prevention and recycling.

The Educational Advisory Board offers mini-grants, ranging from $500-$3,000 each, and project grants, which average approximately $20,000 each, with a maximum request of $50,000.

Grant money is limited to individuals and organizations serving citizens of Alameda County and the cities of San Ramon and San Francisco, with the exception of franchise waste haulers.

3/15/2014 Braitmayer Foundation $10,000 Grant

http://www.braitmayerfoundation.org/how-to-apply/

$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.

3/31/2014 CRS Science Super Star Challenge

http://www.crsscience.org/sciencesuperstarprogram

$500-10,000

REcognition and various prizes

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 2014

4/1/2014 Elementary Teacher Award

http://www.paemst.org/controllers/home.cfc?method=view

$10,000 and trip to Washington DC

Alternate years for elementary and secondary. 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.

4/15/2014 Teacher Development Grants

http://www.mccartheydressman.org/teacher.html

$10,000 per year up to 3 years

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.
4/22/2014  2014 Discovery Education 3M Young Scientist Challenge

http://www.youngscientistchallenge.com/

$500-$25,000

students must create a 1-2 minute video describing a new innovation or solution that could solve or impact an
everyday problem related to how we live, how we work or how we play. One student will win the coveted title of
"America's Top Young Scientist."

4/28/2014  Doug Prouty Classroom Grant Program

http://www.eastbaycue.org/grant-instructions-and-rubric

East Bay Computer Using Educators

up to $1500

Must be a EBCUE member. Membership is part of attending Cool Tools X conference February 8. 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.

4/30/2014  Environmental Education Grants

http://www.thelawrencefoundation.org/grants/

The Lawrence Foundation

$5000

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

May 2014

5/1/2014  Outstanding Earth Science Teacher Program

http://www.nagt.org/nagt/programs/oest.html#nomination

National Association of Geoscience Teachers

$1500 value

Outstanding Earth Science Teacher (OEST) awards are given for "exceptional contributions to the stimulation of
interest in the Earth Sciences at the pre-college level." 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.

5/1/2014  Sol Hirsch Education Fund Grants

http://www.nwas.org/grants/sohlirsch.php

National Weather Association

$750

Awarded annually to teachers/educators of grades K-12 to help improve the education of their students, school
and/or community in the science of meteorology. The Grant is intended to allow teachers to:
• Purchase scientific materials and/or equipment for the classroom, school or community.
• Begin new school and/or community science outreach and education programs.
• Enhance and/or expand existing meteorology / science education programs.
• Attend accredited courses, workshops and/or conferences related to meteorology that will significantly enhance
  their teaching activities.

5/1/2014  Ocean Guardian School Grant

http://sanctuaries.noaa.gov/education/ocean_guardian/welcome.html

National Marine Sanctuaries

$2,000-5,000

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).

5/1/2014  American Honda Foundation Grant


American Honda Foundation

$20,000-60,000

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

5/1/2014  Win a Wireless Lab Sweepstakes

http://cdwg.discoveryeducation.com/wawl/enter/index.cfm

Discovery Education

$45,000 wireless lab

Enter every day from now until May 1, 2014.

5/12/2014  The CSTA Future Science Teacher Award

http://www.cascience.org/csta/programs_awards.asp

California Science Teachers Association

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.

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Printed:  2/16/2014
June 2014

6/1/2014

Student Achievement Grants

http://www.neafoundation.org/pages/nea-student-achievement-grants/

The NEA Foundation

$5000

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

6/1/2014

Learning & Leadership Grants

http://www.neafoundation.org/pages/learning-leadership-grants/

The NEA Foundation

$2000-5000

Grant supports public school teachers, public education support professionals, and/or faculty and staff in public institutions of higher education for one of the following purposes:

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

6/15/2014

School Garden Grant

http://www.calfertilizer.org/grant.htm

California Fertilizer Foundation

$1200

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

July 2014

7/1/2014

The Bauder Endowment for the Support of Physics Teaching

http://www.aapt.org/Programs/grants/bauderfund.cfm

American Association of Physics Teachers

$500

Supports activities for AAPT members, such as workshops at the local level, that promote physics education utilizing physics apparatus. Funds can purchase equipment and materials used by participants in the workshop. Does not reimburse indirect or administrative costs.

7/1/2014

Outstanding Achievement in Primary and Secondary Education

http://entsoc.org/awards/professional/educational

Entomological Society of America

$1600

Recognize educators who have gone beyond the traditional teaching methods by using insects as educational tools. One winner will be chosen from among primary teachers (grades K-6) and one from among secondary teachers (grades 7-12). These annual awards are presented at the ESA Annual Meeting. Teachers who win this award must be available to present a lesson plan at a symposium during the ESA Annual Meeting. The recipients will receive:

* A $400 donation to the winner's school to purchase teaching materials required to expand the use of insects in the teaching curriculum;
* $400 for expenses associated with travel required to present a paper or poster on the use of insects in primary or secondary educational programs at a peer professional venue of their choosing;
* Gratis registration to attend ESA’s Annual Meeting; and $800 paid directly to the winner for expenses for travel, hotel, and other costs to attend the ESA Annual Meeting.

7/1/2014

Teacher Grant

http://webapps.acs.org/findawards/detail.jsp?ContentId=CNBP_031001

American Chemical Society

$500

Recognizing the financial challenges faced by many educational institutions, the California Section Educational Grants Program was created in 1995 as an annual program to award needy schools the funds to help purchase educational materials for the teaching of chemistry, whether these materials be in the form of lab equipment, books or other "paper" materials, electronic teaching aids, or teacher training such as registration fees for summer AP workshops. The funds are not meant to supplement compensation for teachers or payment to students. The annual grant cycle includes announcement of the program in the spring, grant applications due July 1, and awards announced in August for the coming academic year.

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

Printed: 2/16/2014

Teacher Grants
Teacher Grants: Rolling or Continuous Deadlines

<table>
<thead>
<tr>
<th>Teacher Wishlist</th>
<th>Adopt-A-Classroom Grants</th>
<th>Adopt-A-Classroom</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://www.adoptaclassroom.org">http://www.adoptaclassroom.org</a></td>
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<td></td>
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<tr>
<td>Register your public school classroom online. This site pairs you with people who want to give money to your classroom to support your teaching.</td>
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<thead>
<tr>
<th>$250</th>
<th>AIAA Classroom Grants</th>
<th>AIAA Foundation</th>
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</thead>
<tbody>
<tr>
<td>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</td>
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<table>
<thead>
<tr>
<th>Approximate Value - $1000</th>
<th>Amy Chamberlain Scholarship Fund</th>
<th>Bay Area Wilderness Training</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://www.bawt.org/programs/funding/scholarships/">http://www.bawt.org/programs/funding/scholarships/</a></td>
<td><a href="http://www.bawt.org/programs/funding/scholarships/">http://www.bawt.org/programs/funding/scholarships/</a></td>
<td></td>
</tr>
<tr>
<td>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.</td>
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<tr>
<th>Discount Bus Rental Rate</th>
<th>Black Tie Community Bus</th>
<th>Black Tie Transportation</th>
</tr>
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<tbody>
<tr>
<td>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.)</td>
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<thead>
<tr>
<th>$2500</th>
<th>California Casualty Academic Award</th>
<th>California Casualty</th>
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<tbody>
<tr>
<td>Enter to win $2500 to cover your out of pocket expenses</td>
<td>Enter to win $2500 to cover your out of pocket expenses</td>
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<table>
<thead>
<tr>
<th>Computer Hardware</th>
<th>Classroom Computers</th>
<th>Computers for Learning</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
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<thead>
<tr>
<th>Technology</th>
<th>Digital Wish List</th>
<th>Digital Wish</th>
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<tbody>
<tr>
<td>Site offers a place for teachers to create a technology wish list. Individuals can then go in to grant these wishes.</td>
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<tr>
<th>$100-1000</th>
<th>Classroom Wishlist</th>
<th>DonorsChoose.org</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teachers describe classroom needs. Contributors decide where they want to put their money. Many corporations including Disney, Chevron, and Horace Mann are now using DonorsChoose.org as the way they give away money to education. How it works: 1. Choose the exact items you need and describe how they'll benefit your students. 2. People, companies, and foundations can help fund your request. 3. Once funded, resources sent directly to your classroom.</td>
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<tr>
<th>$500</th>
<th>Do Something Seed Grants</th>
<th>DoSomething.org</th>
</tr>
</thead>
</table>

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

bolded: **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.

**Free admission**

**Free Admission to CA Title 1 Schools**  
**Exploratorium**

*http://www.exploratorium.edu/visit/field-trips*

Sign up Now for field trips during the first year that the Exploratorium is at Pier 15.

**$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.

**$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.

**$1000-$5000**

**Education Grants**  
**Kinder Morgan Foundation**

*http://www.kindermorgan.com/community/km_foundation_guidelines.cfm*

Due the 10th of each month. Academic programs, including tutoring; Arts education programs; Environmental education programs that work with local schools and meet curriculum standards.

**$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.

**up to $150**

**Classroom Grant - begin accepting applications**  
**Pets in the Classroom**

*http://www.petsintheclassroom.org/teachers/*

Pets in the Classroom grants are offered to Pre-Kindergarten through Eighth grade classes only in both public and private schools. These grants are intended to support pets or aquariums in the classroom for the purposes of teaching children to bond with and care for their pets responsibly. The welfare of the small animals involved is of paramount importance. These grants must not be used for the purposes of research or experiments of any kind. There are five (5) grant types, including: 1- Rebate Grants in the amounts of $100 (for small animal or birds) or $150 (for reptiles or fish) for purchases at any pet store; 2- the Sustaining Grant in the amount of $50 to maintain an existing classroom pet; 3- Petco Grant, which provides coupons for the live animal, pet habitat and supplies purchased at Petco; and 4- a Petsmart Grant, which provides coupons for the live animal, pet habitat and supplies purchased at Petsmart. 5- Pet Supermarket Grant, which provides coupons for live animal and pet supplies purchased at Pet Supermarket.

**$1000 for fieldtrips**

**Excursion Grant - Alameda County**  
**Philanthropic Ventures Foundation**

*http://venturesfoundation.org/programs/teacher-grants/excursion-grants-program*

Check back often to see if funding renewed. Grants of up to $1,000 to fund classroom excursions; funds can cover the cost of transportation, admission fees and food. Public school teachers for grades K-5, Alameda and San Mateo counties can apply for grant funding.

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Printed: 2/3/2014  
Teacher Grants - Rolling Deadlines
<table>
<thead>
<tr>
<th>Grant Program</th>
<th>Foundation/Sponsor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>After School Grant Program - Oakland Schools</strong></td>
<td>Philanthropic Ventures Foundation</td>
<td>Teachers grades 6-12th are eligible to apply. There is a limit of two grants per school each school year. Teachers are encouraged to come up with new ideas for after school programs. Grants up to $2,500 are available to cover costs of equipment, teacher time, and/or refreshments.</td>
</tr>
<tr>
<td><strong>Science Project Support Application</strong></td>
<td>Synopsys Outreach Foundation</td>
<td>Each teacher may request: up to 100 science project poster boards (maximum 300 per school), up to 300 round, adhesive &quot;I Did It&quot; stickers, up to 5 &quot;science-o-rama&quot; event posters</td>
</tr>
<tr>
<td><strong>Grants for Teachers</strong></td>
<td>Teacher Planet</td>
<td>Database of education grants of all types and amounts.</td>
</tr>
<tr>
<td><strong>Mini-Grants For Grades 6 - 12</strong></td>
<td>Toshiba America Foundation</td>
<td>Wanted: Classroom Innovators! Toshiba America Foundation is accepting applications from teachers who are passionate about making science and mathematics more engaging for their students. Do you have a wish list of instructional equipment that will make learning more exciting for your students?</td>
</tr>
<tr>
<td><strong>Education Grants</strong></td>
<td>Wells Fargo Foundation</td>
<td>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</td>
</tr>
</tbody>
</table>
Temporary & New Science Exhibits Around the Bay Area

Bay Area Discovery Museum

Super Kids Save the World

(October 18 - May 4, 2014) It’s saving electricity with a single flip of a light switch. It’s the power to turn an old tablecloth into a super hero cape and the ability to repair something instead of throwing it away. It’s fighting pollution and saving the world one aluminum can at a time. It’s ordinary kids making a difference. It’s Super Kids Save the World! Super Kids Save the World gives kids (and their parents) the power to go green! Designed with “green” materials and practices, this super exhibit gives kids real super hero training starting with the four R’s: Reduce, Reuse, Repair, Recycle!

Bay Model Visitor Center

Depth Curve – Art Exhibit

(January 13-February 24, 2014) An exhibit of works on paper by San Anselmo artist Jeff McLane. The works are atmospheric color fields with line, texture, mass, and edges developed from the shapes and color in the fields. The images are developed through an intensive process of layering and removal of acrylic paint, graphite, and ink expressed by spreading, wiping, scraping, drafting, painting and drawing. The work is inspired by studies in science, the arts, and the implications of meaning.

California Academy of Sciences

Dark Universe - Planetarium Show
http://www.calacademy.org

(January 31-October 9, 2014) Playing daily in Morrison Planetarium. Seats in the 11:30am show available for middle and high school students. Educator Guide available! An exhilarating voyage through the known and unknown, Dark Universe plunges audiences into two of today’s biggest cosmic mysteries—dark matter and dark energy—and the scientific discoveries that led up to them. Narrated by astrophysicist Neil deGrasse Tyson, this immersive planetarium show features exquisite renderings of enigmatic cosmic phenomena, seminal scientific instruments, and spectacular scenes in deep space. Hurtle through Jupiter’s atmosphere, sail out to the far reaches of space, and be there for the birth of our own galaxy while exploring how our understanding of the Universe has evolved over time. Celebrate what we don’t yet know by confronting the invisible, 95% of the cosmos that scientists continue to grapple with, but which may in fact govern how the Universe behaves. Developed by the American Museum of Natural History (www.amnh.org), in collaboration with the California Academy of Sciences and GOTO Inc.

Children's Creativity Museum

Season's Dreamings
http://creativity.org/seasons-dreaming/

(December 21, 2013 through March 20, 2014) Check out the new "Season's Dreamings" studio in our Imagination Lab. In this space we will introduce a new theme every season with an activity designed to help kids think critically about a variety of issues throughout the changing season. Drop-in, all ages.

Children's Discovery Museum of San Jose

Imagination Playground

The giant blue blocks are returning for a very short time! Stop by, build something, and surprise us with your creativity.

Endangered Species Day
Endangered Species Day - May 16, 2014
www.endangeredspeciesday.org
Celebrate Endangered Species Day May 16th, 2014. Endangered Species Day is an opportunity for people of all ages to learn about the importance of protecting endangered species and everyday actions they can take to help protect them.

Fine Arts Museums of San Francisco

The Bay Bridge: A Work in Progress, 1933–1936
http://deyoung.famsf.org/deyoung/exhibitions/bay-bridge-work-progress-1933-1936
(February 1, 2014 - June 8, 2014) - Celebrating the completion of the new eastern span of the San Francisco–Oakland Bay Bridge, this exhibition presents a newly acquired group of photographs by Peter Stackpole (1913–1997) documenting the bridge’s original construction in the 1930s—the first works by this important Bay Area photographer to enter the Museums’ collection. Scaling the dizzying heights of the unfinished structure over the course of three intense years, this young photographer moved freely among the construction workers, telling their story of death-defying labor in a series of striking photographs that record one of the most ambitious public works projects in California history. In the midst of the Great Depression, many artists were drawn to the spectacular site, inspired by the bridge’s modern engineering, to capture its bold industrial forms and commemorate the heroism of the American workforce. This exhibition juxtaposes Stackpole’s photographs with prints and drawings of the Bay Bridge construction by his contemporaries, many of whom earned their living under the auspices of San Francisco’s Federal Art Project.

Helix

Loomalites
http://helixlosaltos.org/upcoming-programs/march-time/loomalites/
(Mid March through May) Romy Randev of Loomalites will install his most recent piece, Penumbra. Penumbra is an interactive installation that responds to movement in its environment. Without any human interaction, Penumbra is disguised as a decorative glass wall. However, each colored glass tile illuminates individually as sensors that respond to movements control LEDs behind the glass. Romy will be on site at Helix to talk about his work and lead workshops to reveal its inner workings. More details coming soon.

Lawrence Hall of Science

Xtreme BUGS
http://www.lawrencehallofscience.org/visit/exhibits/featured/xtreme_bugs
(February 1 through September 1) — Xtreme BUGS are marching, flying, and crawling into the Hall! Get ready to encounter these massive, moving, and buzzing insect and arthropod models. They're Larger Than Life! Explore the fascinating world of bugs on an extreme scale to understand why, even though they're small, bugs play a critical role in our environment, culture, and the global economy.

Oakland Museum of California

Above and Below: Stories of Our Changing Bay
http://www.museumca.org/exhibit/above-and-below
(August 31, 2013 – February 23, 2014) Presented on the occasion of the opening of the San Francisco-Oakland Bay Bridge’s (SFOBB) new East Bay span, Above and Below: Stories of Our Changing Bay explores the dynamic stories of how the residents of, and visitors to, the San Francisco Bay Area have shaped and been shaped by the Bay over the last 6,000 years. The first major exhibition to be presented with all three of OMCA’s renovated galleries of California Art, History, and Natural Sciences complete and open to the public, this multidisciplinary exhibition highlights historic and contemporary place-based stories about the Bay, and engages viewers in discussions about the Bay’s future. Through an extensive use of media featuring oral histories, community voices, and interactives, the exhibition explores how human engineering and natural forces have come together over time to shape and reshape the land and water around the San Francisco Bay, and how sea-level rise, wetlands restoration, invasive species, and climate change are central topics in determining the future of the Bay.

Natural Sciences Hall - New Sections Open
http://museumca.org/natural-sciences
(New sections opening December 20) - The Tehachapis, a mountainous hub where the Mojave Desert, San Joaquin Valley, Sierra Nevada, Great Basin, and Coast Ranges all meet, is an important area of ecological evolution. Impressive dioramas will reveal how diverse species, including tule elk and mountain lions, coexist in this unique region of many habitats. Coachella Valley is a desert of palm trees and sand dunes. Visitors will learn how uniquely Californian species thrive in this arid environment; they will also see how the growing human population taxes the scarce water supply and how local communities are working to preserve the land.

Save the Frogs

San Francisco

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 2/16/2014
SAVE THE FROGS! Education Center
www.savethefrogs.com/berkeley
Opening in February 2014, the SAVE THE FROGS! Education Center will serve as a space to hold educational presentations, classes and workshops. SAVE THE FROGS! is the world’s leading amphibian conservation organization whose mission is to protect amphibian populations and to promote a society that respects and appreciates nature and wildlife. The SAVE THE FROGS! Education Center will be located at 2524 San Pablo Avenue, Berkeley, CA 94702.

SF Botanical Garden & Strybing Arboretum
San Francisco

Art Exhibit: Trees Love Light
http://www.sfbotanicalgarden.org/library/art-exhibit.html
(February 1, 2014 – April 6, 2014) -- An exciting new exhibition by photographer Stephen Kane, Trees Love Light. In images ranging from landscapes to close-ups, realist to near-abstract, this exhibit celebrates trees in all stages of their life cycle. Stephen (S.M. Kane Photography) has lived in San Francisco for nearly 17 years. As an Inner Sunset resident, he finds rich subject matter in the Botanical Garden and Golden Gate Park. "I have loved walking in and photographing the park at all times of day and in all types of weather – heavy fog, medium fog, lifting fog, and drifting fog. I've even been known to tolerate full sun," says Kane. "The current exhibit grows out of these walks, and out of a lifelong love of trees."

The Tech Museum of Innovation
San Jose

Star Wars: Where Science Meets Imagination
http://www.thetech.org/plan-your-visit/special-exhibitions/STAR-WARS
(October 19, 2013 - March 23, 2014 - EXTENDED) Journey into that galaxy far, far away that has captivated audiences for more than 30 years. This is your last chance to see the blockbuster science and technology exhibition that brings to life one of pop culture’s most successful franchises. This 10,000-square-foot exhibition explores the futuristic technologies depicted in the Star Wars® films: -- the real science behind them, and the research that might someday lead to real-life versions of the technologies seen in the series. See more than 80 authentic costumes, models, and props from all 6 Star Wars® films plus interactive exhibits and design labs related to real-world technologies. Defy gravity, manipulate robots, engineer droids, and lots more in the exhibition that makes its final stop on its international tour.

Tilden Nature Area-Tilden Regional Park
Berkeley

Little Farm and Nature Center Temporarily Closed
http://www.ebparks.org/closure
(October 2013 through March 2014) Major sewer work is being done in the northern Tilden Regional Park and in Tilden Nature Area from October 2013 through March 2014. The Little Farm will be closed entirely to public access during the construction project. The Environmental Education Center (EEC) will be closed to the public on weekdays, open on weekends. The Indian Camp (EEC) parking area will be closed to public parking during the entire construction project. During construction, there will be pedestrian access to the Nature Area through Lone Oak Road – look for directional signs.

University of California, Berkeley (UC Berkeley)
Berkeley

Cal Day Open House - April 12, 2014
http://calday.berkeley.edu/
It's a day like no other. Spend it in Cal classrooms and labs, museums and performance halls, libraries, and arenas. Admission is free.

Walden West
Saratoga

The Abby Sobrato Science and Sustainability Center
http://204.88.142.159/waldenwest/school_programs/sustainability_program.asp
NEW! The Abby Sobrato Science and Sustainability Center is a new, one-of-a-kind facility in Santa Clara County. Science programs accommodate groups of up to 90 students during day-long field trips that involve students in a unique blend of activities. Students rotate through three investigative stations where they explore the outdoors, participate in a hands-on inquiry-based science lesson and a sustainability-related lesson. These activities complement teachers’ classroom lessons and are aligned to State and National Science Standards as well as Common Core and are designed to target specific grade levels. Cost: $12/student