Where can you learn about dozens of different science education programs all in one place? The Spring CRS Field Trip for Teachers!

Join us for a morning of celebration, resource sharing, exploration, delicious treats, prizes and discovery at the CRS Spring Field Trip for Teachers event, co-hosted by Chabot Space & Science. It’s free, fun, and special for K-8 teachers.

Pick up your “passport to science” as you walk in the door. Collect stamps as you wander through our science education resource fair, visit the exhibits and science labs, and touch base with the staff of Community Resources for Science. Chabot staff will present demonstrations, teacher-only access to labs, and much more. Talk with representatives from NatureBridge, Children’s Creativity Museum, Exploratorium, Kids for the Bay, Lake Merritt Boating Center, Bay Area Discovery Museum, Hiller Aviation Museum, Astronomical Society of the Pacific, California Coastal Commission, and more. Turn in your completed passport as your raffle ticket to be eligible for prizes.

9:00-10:00 am—Exclusive Teachers-Only Time! Chabot Space & Science Center will be open just for teachers to explore the center and the chat with science educators from different organizations around the Bay. Enjoy coffee and pastries, too.

10:00-11:00 am—The resource fair continues and the labs and exhibits will be open for you to explore. At 10:00 the museum opens to the general public.

11:00-Noon—Gather in the theater for a lively, informative program featuring Chabot science demos, raffle prizes, and recognition of this year’s Science Super Star educators and schools.

12:30 pm—Special Lunch with a Scientist Celebration for this year’s Science Super Star Participants. See page 2.

This event is free for teachers.
Feel free to share with colleagues.

RSVP at https://ftftchabot2016.eventbrite.com
Earn Prizes and Recognition through the CRS Science Super Star Challenge!

Now is the time to document the excellent science learning and teaching in your classrooms this year. Between now and early March, continue to teach and document exciting science and engineering lessons. Fill in the CRS Science Super Star form as you go and send it to us by March 15th.

The challenge goals outlined in the form include:

- Teach at least 14 hands-on science lessons
- Take your students on a field trip or bring a science visitor to your class (this could include CRS BASIS lessons)
- Tell us about science lessons that connected writing, reading, speaking & listening and math
- Participate in a science professional development experience
- Use CRS support services
- Don't forget to include photos, student work, or videos of your science experiences this year!

In recognition of completing the challenge, you will:

- Receive a bag of goodies such as books, gift certificates, and science tools.
- Be entered into a drawing for larger prizes such as museum tickets, in-class programs, field trips, and more.
- Receive a classroom certificate acknowledging Excellence in Elementary Science Teaching.
- Your name will be shared on our website and printed materials in recognition of your hard work in bringing science into your classroom!

In addition, each student in your class will receive a science-themed book and a small science item (magnifying glass, etc.) to take home.

Forms and information at www.crscience.org/educators/SSSprogram

Whole School Science Super Star Challenge!

If 80% or more of the teachers at your school turn in their Science Super Star forms, your entire school will also earn recognition as a Science Super Star School.

In addition to recognition for Excellence in Elementary Science, schools will be entered in a drawing for whole-school prizes such as assemblies or other special programs. No separate forms needed.

Congratulations!

Ann Park of Greenleaf Elementary and Meaghan Matsuoka of Allendale Elementary

are the first teachers to turn in a completed Science Super Star Challenge application for the 2015-16 school year!

BONUS!

In recognition of the 5th year of the Science Super Star Challenge, those teachers who complete this year’s CRS Science Super Star Challenge, will be invited to a special Lunch with a Scientist celebration and recognition event following the Field Trip for Teachers on March 19.

Remember to get your completed forms to CRS by March 15 so we can include you among the educators we are lifting up as examples of excellence in science teaching!
Plan for Summer PD

Many programs have application deadlines coming up. Check out the **Deadline** and **Professional Development** sections of this Resource Guide to explore the options for summer and make sure you don’t miss out on a program with an early application process.

Next Generation Science Standards

Schools are still in the process of transitioning from the old California Science Standards to the Next Generation Science Standards. CRS is always looking for resources to help you learn and start teaching NGSS lesson in your classroom. Here are a few of our favorite resources.

**BozemanScience**—Created by a teacher in Montana, His short, information videos on all the aspects of NGSS are a great place to get context for how it will work in classrooms over a child’s school career.

www.bozemanscience.com/next-generation-science-standards/

**Engineering is Elementary** just released a series of videos Called their Next Gen Snippets to show what the NGSS practices look like in a classroom

www.eie.org/nextgensnippets

**CRS Upcoming Professional Development** lists lets you find out about the many NGSS based workshops happening around the Bay. You can find the list in this Resource Guide or you can always find an updated version at www.crscience.org/catalogs/WorkshopCatalog.pdf

**NSTA** has a series of upcoming and archived webinars

http://ngss.nsta.org/nsta-products-and-services/

**CRS Standards Support Pages**—We are always adding to this collection of web pages as more science resources for NGSS are created.

www.crscience.org/educators/standardssupport

Stay Tuned! We are working on a series of documents to show where some of the topics from the old California State Standards has landed in the NGSS. This project looks at topic (not approach). If you are interested in a draft copy email us at CRS@crscience.org and we would be happy to share them with you. When they are ready for “prime time” we will share them out through our monthly e-NewsBlasts.

Invite CRS to a Staff Meeting!

**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:

- **Overview of CRS Services.** How do I get help finding lesson ideas, 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**?
- What can we do to plan for a **science fair** or **family science night**?
- **Introduction to engineering in the elementary setting** -- it’s not just about building bridges! Learn some fun and engaging projects that you do in your classrooms.

CRS professional development workshops are **FREE** to Berkeley, Oakland, Emery and West Contra Costa District Schools.

Need Planning Support? Contact CRS - Call 510-527-5212 or email CRS@crscience.org
Program Deadlines

February 2016

2/17/2016  Registration for Fall 2016-17 Field Trips Opens  Life Lab Science Program
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
http://www.lifelab.org/for-educators/fieldtrips/

2/29/2016  2016 Deadline to apply Summer Teacher Institutes - June 20-24  Library of Congress
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.loc.gov/teachers/professionaldevelopment/teacherinstitute/

March 2016

3/1/2016  Sign up for Spring field trips  Hayward Shoreline Interpretive Center
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.haywardrec.org/hayshore_schools.html

3/1/2016  Registration Deadline - Spring Field Trips  Stepping Out Stepping In
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.steppingoutsteppingin.org/

3/3/2016  Teacher Institute on Science and Sustainability - July 18-29  California Academy of Sciences
Grades: 3rd;4th;5th
https://www.calacademy.org/educators/teacher-institute-our-impact

3/4/2016  Deadline to apply - Summer Institute for Middle School Science Teachers  National Institute of Standards and Technology
Grades: 6th;7th;8th
http://www.nist.gov/iaao/teachlearn/

3/6/2016  The Edible Schoolyard Summer Academy - Deadline to apply  Edible Schoolyard
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://edibleschoolyard.org/academy

3/10/2016  Summer Program Application Deadline  Forestry Institute for Teachers
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.forestryinstitute.org/

3/11/2016  Bay Area Teacher at Sea program May 13-22  National Oceanic and Atmosphere Administration
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://cordellbank.noaa.gov/education/teachatsea2016.html

3/15/2016  2016 Summer Teacher Institute Workshops (June 20-July 8)  Exploratorium
Grades: 6th;7th;8th;9th;10th;11th;12th
http://www.exploratorium.edu/teacher-institute/summer

3/21/2016  Lick Observatory Teacher Institute (LOTI) - June 29 - July 1  Multiverse
Grades: 6th;7th;8th;9th;10th;11th;12th
http://multiverse.ssl.berkeley.edu/Programs/LickObservatoryTeacherInstitute

3/31/2016  Summer Fellowship Program - Application Deadline  IISME - Industry Initiatives for Science and Math Education
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.iisme.org/

April 2016

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Printed 2/1/2016
School Garden & Resilient Schools Application Summer 2016
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.oaec.org/school-garden

CDC Science Ambassadors - Deadline to apply July workshop
Grades: 6th;7th;8th;9th;10th;11th;12th

2016 Smithsonian Science Education Academies For Teachers deadline
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
https://ssec.si.edu/professional-development

May 2016

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

Fall 2016 Program Application Opens
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.slideranch.org

June 2016

Registration begins for 2016-17 School Year
Grades: 4th;5th
www.sailoakland.com/sailingintoscience

Fundamentals of Inquiry Early Bird reg.
Grades: K;1st;2nd;3rd;4th;5th
http://www.exploratorium.edu/education/institute-for-inquiry/workshops/fundamentals

August 2016

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

Field Trip Reservations Open- fills fast - date approx.
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.nps.gov/pore/forteachers/index.htm

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Printed 2/1/2016
Program Deadlines
Professional Development

February 2016

2/19/2016  Tour - Elementary  Lighthouse Community Charter School
For Grades: K;1st;2nd;3rd;4th;5th;6th
http://www.eventbrite.com/o/lighthouse-creativity-lab-5950964179
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.

2/20/2016  Introduction to the NGSS  California Academy of Sciences
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.calacademy.org/events/teacher-workshops
Cost  $15.00  Stipend:
9:00 AM to 3:00 PM - How will science education be transformed by the Next Generation Science Standards (NGSS)? Dive into the Framework for K-12 Education to discover the principles underlying the NGSS. Gain experience with the scientific practices, cross-cutting concepts, and disciplinary core ideas that comprise the new framework, and learn how to read those NGSS tables! This beginner's-level overview will give you the tools and confidence to start preparing for the new standards.

2/20/2016  Santa Cruz COE Water Education Day Training in Santa Cruz  California Education and the Environment Initiative
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.californiaeei.org/training/
Cost  ?  Stipend:
Contact: Lucy Christensen Lucy.Christensen@calrecycle.ca.gov or (916) 323-5551

2/20/2016  Next Gen. Science Standards for Beginners: Understanding the Performanc  Resource Area for Teachers (RAFT)
For Grades: 3rd;4th;5th;6th;7th;8th
http://www.raftbayarea.org/workshops
Cost  $20 for members; $35 for non-members  Stipend:
The Next Generation Science Standards represent an approach to teaching science in a real-world, practice-based way in hopes of inspiring the next generation of scientists and engineers. This approach is not without its challenges. In this workshop participants will learn methods of understanding the performance expectations, or PEs, and the underlying skills that students must learn in order to achieve the PEs. The RAFT instructor will model how to unpack the PEs to identify those skills as well as provide ideas and activities supporting student mastery of the skills. The participant will leave the workshop with deeper knowledge of the science and engineering practices that serve as the vehicle to drive students into the roles of scientist and engineer! LOCATION: RAFT Redwood City

2/20/2016  Camping at the Presidio Training - 1-day  Bay Area Wilderness Training
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.bawt.org/programs/training/leadership-training/camping-at-the-presidio/
Cost  $45  Stipend:

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Printed: 2/2/2016  Professional Development
The CAP Leadership Training is designed to provide group leaders with the skills and resources to plan and lead a youth camping trip in the Presidio and beyond. During the two-day, one-night training session, group leaders acquire technical camping skills and become familiar with the Presidio’s natural and cultural resources. They are trained to lead place-based nature hikes and other outdoor activities as well as learn about the process for reserving a camping trip through the CAP program. After participants complete the CAP Leadership Training program, they can begin to prepare for their camping trip to the Presidio’s Rob Hill Campground.

2/24/2016  Monthly Lecture
Northern California Geological Society
For Grades:  K;1st;2nd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.ncgeolsoc.org/meetings.htm#Meetings
Cost  $1 for K-12 Teachers
Stipend:  
The NCGS meets each last Wednesday of the month in Orinda at the Masonic Center, 9 Altarinda Rd.  There is a social period at 6:30 p.m. At 7 p.m. a talk (no dinner).  Cost is $5 per regular member; $1 per student member, and $1 per K – 12 teachers.

2/24/2016  FOSS Next Generation Open House
Lawrence Hall of Science
For Grades:  6th;7th;8th
Cost  FREE
Stipend:  
Come to the Lawrence Hall of Science to preview the new FOSS Next Generation K–5 materials.  Drop-in hours 3:00 pm - 5:00 pm.  Take the opportunity to talk with FOSS Staff and get your questions answered.  The Lawrence Hall of Science, Room 119  December 9, 2015 or January 27, 2016 or February 24, 2016

2/25/2016 - 2/26/2016  Designing Making Experiences
Lighthouse Community Charter School
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.eventbrite.com/o/lighthouse-creativity-lab-5950964179?s=21542083
Cost  FREE to OUSD and title 1 - $300  
Spend two days planning a K-12 making project or unit of your choice and leave with a project example made by you.  While being immersed in a making environment, you will make and develop, test and troubleshoot the making curriculum or project of your choice for your K-12 classroom or school.

2/27/2016  Project WET and EEI Workshop at Sonoma County Water Agency
California Education and the Environment Initiative
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.californiaeei.org/training/
Cost  free  
Stipend:  
Let us help you teach your students about the drought and other water issues by attending our locally-oriented Project WET workshop. The goal of Project WET is to promote awareness, appreciation and knowledge of California’s precious water resources. We have tailored the workshop to our region with activities that highlight local water issues and concerns. Project WET Curriculum and Activity Guide 2.0 includes over 64 hands on activities that have been correlated to the Common Core English Language Arts, Common Core Math and Next Generation Science Standards as well as the EEI (Education and Environment Initiative) standards. All participants will receive a Project WET curriculum guide. Guest presenter and CREEC coordinator Laura Powell, will be conducting an exciting EEI lesson.

2/27/2016  Short Course - San Francisco Bay – Past, Present, and Future
UC Museum of Paleontology
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://ucmp.berkeley.edu/about/shortcourses/shortcourse16.php
Cost  FREE  
Stipend:  
We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed:  2/2/2016  Professional Development
The San Francisco Bay estuary is one of the most important ecological habitats in California and its presence influences most everything unique about the Bay Area – the geography, the weather, the people. Earthquakes, sea level change, erosion, and other geological processes have shaped the Bay and surrounding landscape for thousands of years. Today and throughout the history of human settlement in the Bay Area and northern California, the Bay has been affected by human activity in a multitude of ways – from hydraulic mining during the gold rush, the introduction of non-native species to the Bay, and to the ongoing modification of the Bay shoreline in a region more than 7 million people call home. Join us to explore the state of the Bay and surrounding coastal areas, and hear from experts on the Bay’s history and the Bay’s future as we consider the human and non-human causes of change continuing to shape San Francisco Bay.

Speakers:
· Rufus Catchings, US Geological Survey — Living with our faults: New research and insights on seismic hazards in the San Francisco Bay Area
· David Schoellhamer, US Geological Survey — Clearing waters of San Francisco Bay: A legacy of California’s Gold Rush
· Lynn Ingram, UC Berkeley and Frances Malamud-Roam, CalTrans — A History of California Climate Extremes: Clues from San Francisco Bay Sediments
· William Cochlan, Romberg Tiburon Center for Environmental Studies — Toxic Phytoplankton: Algae with an Attitude in Northern California

2/27/2016 FEAST -Fun Exchanges & Activities for Science Teachers
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.chabotspace.org/feast.htm
Cost FREE
Stipend:
(9am - 12pm) - Attention all Mars astronauts! The day humans take their first steps on the surface of the Red Planet is rapidly approaching. We need to make sure we can land our spacecraft and crew safely! Come take a sneak-peek at this STEM-based workshop for students. Sharpen your knowledge and take on the engineering challenge to design a Mars lander. But there's a catch! Your team must work within a budget and on a timeline.

Free for Educators (must register in advance) - Have you been looking for new, exciting, teacher-tested ideas for your science classroom? Perhaps you've wanted to connect with others on science resources, safety in the lab or how other teachers manage certain science demonstrations and activities? Or maybe you simply want to network with and build relationships with other local science educators.

2/27/2016 Expressing Creativity using STEM
For Grades: K;1st;2nd;PK;TK
http://www.raftbayarea.org/workshops
Cost $20 for members; $35 for non-members
Stipend:
In this make -n- take workshop we will use different types of art techniques to challenge young learners to step out of the box and explore science, technology, engineering, and math and inspire creativity. We will create lessons around different hands-on activities for young learners that provide them with quality STEM learning experiences.

2/27/2016 Exploring Heredity
For Grades: 3rd;4th;5th
http://www.calacademy.org/teachers/tiss/?page=teacher-workshops-calendar
Cost $15
Stipend:
9:00 AM to 3:00 PM -This workshop explores a specific topic from the NGSS Disciplinary Core Ideas. You will build your adult-level background knowledge and learn about potential student misconceptions on the subject, as well as experiencing grade-level appropriate student activities.

"Heredity: inheritance and variation of traits" [LS3] at the third grade level explores the idea that organisms vary in how they look and function, with some characteristics being inherited from their parents and others resulting from interaction with the environment. This workshop will be targeted at these third grade standards, but educators of other grades are welcome to attend if interested in the topic.

March 2016

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Printed: 2/2/2016

Professional Development
Make and Take: Gravity Cars

Alameda County Office of Education

3/3/2016

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

http://www.eventbrite.com/o/acoe-core-learning-team-64178769131

Cost    FREE

Stipend:

Educators will work on a specific, standards-aligned project to take back to their classroom. They will leave with a better understanding of how making can be embedded into the classroom, and construct a whole new meaning from the phrase: “use appropriate tools strategically.” In this session, participants will make a “gravity car” using simple tools, recycled materials, and just plain tinkering. They will struggle with the question: “What math can my students learn by making a gravity car?” Participants will:

Experience making a gravity car using various materials and mathematics
Plan a MakingMath gravity cars lesson/project to take back to their classroom

Teacher Open House - Sleep Over

Monterey Bay Aquarium

3/4/2016

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

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

Cost    FREE

Stipend:

It's a sleepover! Join us for an after-hours exploration of our exhibits and find out what's new for teachers and students. Take advantage of this opportunity to get up close and behind the scenes without the crowds! We'll have guest speakers and special events throughout the evening in appreciation of all you do for education. You can come for just the evening or spend the night with us.

Sowing the Seeds of Wonder: Gardens in Early Childhood

Life Lab Science Program

3/5/2016

For Grades: K;PK

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

Cost    $150

Stipend:

Spend a day looking at the garden through the eyes of a pre-school student. Sample many activities that can encourage young children to learn about their world using all their senses. Learn how to implement garden activities in a pre-school setting. We’ll also discuss basic gardening skills, appropriate garden design, safe plants for pre-school gardens, and garden art projects and songs. You’ll receive a pre-school activity packet with activities and songs for teaching throughout the year.

Teacher Appreciation Cruise

Aquarium of the Bay

3/5/2016

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


Cost    FREE

Stipend:

Aquarium of the Bay appreciates all of the amazing things teachers do. To thank you, we invite you and your family to join us aboard Alcatraz Cruises’ Hybrid Ferry for a day of fun out on San Francisco Bay. Explore the San Francisco Bay and get up close and personal with local wildlife. The sail will include a complimentary lunch.

Sunday, November 15, 2015 from 10:45 AM to 1:15 PM

Hiking Leadership Training

Bay Area Wilderness Training

3/5/2016

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

http://www.bawt.org/programs/training/leadership-training/hiking-leadership-training/

Cost    $10 - includes lunch and snacks

Stipend:

The Hiking Leadership Training (HLT) is designed to train teachers and youth workers how to plan, organize, and lead fun and safe hikes with youth. Novice and experienced hikers will gain new leadership and facilitation skills. Some of the topics covered during the training include: fun games for the trail, leave no trace, the natural history of open spaces, risk management, meal planning, navigation, and more. Registration for this course includes snacks and lunch. Participants are expected to wear footwear appropriate for hiking. Bay Area Wilderness Training can provide boots upon request. Participants are not expected to buy new clothing for this training. The HLT is a partnership program between Bay Area Wilderness Training and the Santa Clara Valley Open Space Authority. Time: 9:30am to 3:30pm    Location: South Bay open space preserves

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

Printed: 2/2/2016

Professional Development
3/5/2016  NGSS Spotlight: Connecting with the Crosscutting Concepts  California Academy of Sciences
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.calacademy.org/events/teacher-workshops
Cost  $35  Stipend:
Special Note: This is a two part workshop series taking place on Saturday March 5 and Saturday March 19. Each session is from 9:00 am - 3:00 pm. In order to participate, you must be able to attend both sessions. How should the Crosscutting Concepts of the Next Generation Science Standards (NGSS) be used in the classroom? Are they just a way to categorize activities or can they actually be used to support and deepen student learning? Join us to explore these questions and build your understanding of this NGSS dimension. Get familiar with each Crosscutting Concept and discover what they might look like at different grade levels. Experience sample activities and engage in discussion with colleagues about how to make the best use of this teaching tool. Leave with inspiration and ideas for implementing the Crosscutting Concepts in your classroom.

3/5/2016 - 3/6/2016  Wilderness First Aid  Bay Area Wilderness Training
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.bawt.org/programs/training/wilderness-medicine/wilderness-first-aid/
Cost  $195  Stipend:
This highly experiential 16-hour class is for anyone who wants to learn how to handle emergency medical situations in the backcountry. It covers basic wilderness first aid topics such as: patient assessment, shock and bleeding, head and spinal injuries, wounds, heat and cold illnesses and much more. Wilderness First Aid certification from Foster Calm available after successful completion of the course and wilderness exam.

3/9/2016  EEI Training at Marin COE in San Rafael  California Education and the Environment Initiative
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.californiaeei.org/training/
Cost  free  Stipend:
Education and the environment initiative curriculum (eei) An easy pathway for classroom integration of Common core and next generation science standards

3/10/2016  Make and Take: PVC Flute  Alameda County Office of Education
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.eventbrite.com/o/acoe-core-learning-team-6478769131
Cost  FREE  Stipend:
Educators will work on a specific, standards-aligned project to take back to their classroom. They will leave with a better understanding of how making can be embedded into the classroom, and construct a whole new meaning from the phrase: "use appropriate tools strategically." In this session, participants will make a flute using simple tools, of PVC pipe, and math. They will struggle with the question: "What Math Can Your Students Learn by Making an Instrument?". We will construct a whole new meaning from the phrase, "use appropriate tools strategically." Participants will:
* Build a PVC flute using mathematics and simple tools
* Explore ways math can be applied to designing and building musical instruments
* Plan a MakingMath instruments lesson/project to take back to the classroom
* Leave with a better understanding of how making can be embedded into the classroom

3/11/2016  Next Generation Science in the Garden Workshop  Life Lab Science Program
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th
http://www.lifelab.org/for-educators/workshops/gcworkshops/
Cost  $180  Stipend:
Make the connection from seed to table in this fun and delicious one-day workshop. Explore ways to teach nutrition through gardening, harvesting and meal preparation in Life Lab’s Chez Panisse Garden Kitchen. You’ll learn how effective ways to encourage kids grades 2-8 to eat more fruits and vegetables as part of a healthy lifestyle. Participants will sample the bounty of the farm and harvest to prepare a nutritious lunch. You’ll receive an activity packet with gardening and nutrition lessons, recipes, and garden kitchen resources.

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

Printed:  2/2/2016  Professional Development
3/11/2016  Tour Middle & High School  
Lighthouse Community Charter School  
For Grades: 6th;7th;8th;9th;10th;11th;12th  
http://www.eventbrite.com/o/lighthouse-creativity-lab-5950964179  
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.

3/12/2016  Saturday Seminar - Assessing Student Understanding  
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  
Stipend:  
Hosted with Bay Area Math Project and Bay Area Writing Project. Workshops are free, but you should RSVP.

3/12/2016  MakingMath Expo  
Alameda County Office of Education  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://www.eventbrite.com/o/acoee-core-learning-team-6478769131  
Cost FREE  
Stipend:  
This is a day dedicated to the fun and exciting world of Problem Solving, where students, teachers, and parents will have various opportunities to apply their math and problem-solving skills. Come experience an assortment of non-traditional problems that will work your thinking muscles, and understand why the Mathematical Practices must be an integral part of every math classroom. All participants will leave with strategies and tools to improve student problem-solving abilities.

3/14/2016  Webinar: Spring 2016 (March 14-April 24) - 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 2016 - Session 2 - March 14 - April 24, 2016 - Register by February 29  

3/14/2016  Science Teacher Climate Change Recruitment  
American Museum of Natural History  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
https://docs.google.com/forms/d/1tZFKD3jeZjtX1EpdMLcxRONC3MPO85JBGZhyHesOo/viewform  
Cost FREE  
Stipend:  
Spring 2016 - Session 2 - March 14 - April 24, 2016 - Register by February 29  

3/15/2016  Nature is Our Classroom: A NatureBridge Teacher Night  
NatureBridge at Golden Gate  
For Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th  
naturebridge.org/bayareateachernight  
Cost FREE  
Stipend:  
3:30-6 p.m. - Learn more about NatureBridge and their environmental science programs for your students. Since 1971, NatureBridge students learn science and deepen their connection to the natural world through guided hands-on exploration of our national parks. Our three- to five-day environmental science programs for grades 4-12 reinforce classroom curriculum and inspire lifelong learning.

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

Printed: 2/2/2016  Professional Development
**Nature is Our Classroom: Teacher Night (South Bay)**

For Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th  
naturebridge.org/bayareateachernight  
Cost: FREE  
Stipend:  
3:30-6 p.m. - Learn more about NatureBridge and their environmental science programs for your students. Since 1971, NatureBridge students learn science and deepen their connection to the natural world through guided hands-on exploration of our national parks. Our three- to five-day environmental science programs for grades 4-12 reinforce classroom curriculum and inspire lifelong learning.

**The Growing Classroom: Intro. to Garden Based Learning**

For Grades: 2nd;3rd;4th;5th;6th  
http://www.lifelab.org/for-educators/workshops/gcworkshops/  
Cost: $300  
Stipend:  
Find out how to bring learning to life in the garden. Using The Growing Classroom activity guide for grades 2-6, participants in this workshop experience hands-on activities connected to academic content standards, learn basic science concepts and gardening techniques, and develop management strategies for a school garden program.

**LiMPETS Introduction to Sandy Beach Monitoring - FREE**

For Grades: 6th;7th;8th;9th;10th;11th;12th  
http://limpets.org/teacher-resources/workshops-and-events/  
Cost: $30 refundable deposit required  
Stipend: $50  
San Francisco Bay area: Saturday, March 19, 2016, at the Gulf of the Farallones National Marine Sanctuary Office, San Francisco. Get involved in this exciting science education program for students. Participants receive the new 5-unit LiMPETS Curriculum and are trained to survey the distribution and abundance of the Pacific mole crab at one of many monitoring sites along the coast.

**Field Trip for Teachers @ Chabot Space & Science Center**

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://ftftchabot2016.eventbrite.com  
Cost: FREE  
Stipend:  
The next Field Trip for Teachers will be at the Chabot Space & Science Center. We will be offering a science education resource fair with educators from museums and other science education providers available to talk about their programs. Chabot Space & Science Center will offer excerpts from their field trip and in class programs. Food, Door Prizes, Networking......Approximate times 9:00am-12:00pm

**Frontcountry Leadership Training (FLT)**

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

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Printed: 2/2/2016  
Professional Development
3/22/2016  NGSS Awareness and Implementation  Contra Costa County Office of Education
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.cccoe.k12.ca.us/prodevcalendar/prodev_events.html
Cost  $110  Stipend:
This full day workshop will engage participants with the fundamental shifts in teaching and learning called for by the California NGSS, hands-on activities to illustrate what it feels like to implement some of these shift, and discussion concerning how to apply these ideas in participants' districts and schools.
Workshop attendees will increase their abilities to help teachers in their district reorient their current science curriculum and instructional methods to align with the NGSS. Participants will be able to: Communicate the instructional implications of learning progressions in the NGSS; Distinguish between scientific inquiry and engineering design; and Coach teachers in how to engage their students in three-dimensional teaching.

3/25/2016  Tour - Elementary  Lighthouse Community Charter School
For Grades:  K;1st;2nd;3rd;4th;5th;6th
http://www.eventbrite.com/o/lighthouse-creativity-lab-5950964179
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.

3/30/2016  Monthly Lecture  Northern California Geological Society
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.ncgeolsoc.org/meetings.htm#Meetings
Cost  $1 for K-12 Teachers  Stipend:
The NCGS meets each last Wednesday of the month in Orinda at the Masonic Center, 9 Altairinda Rd. There is a social period at 6:30 p.m. At 7 p.m. a talk (no dinner). Cost is $5 per regular member; $1 per student member, and $1 per K – 12 teachers.

3/29/2016 - 3/30/2016  Camping at the Presidio Training  Bay Area Wilderness Training
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.bawt.org/programs/training/leadership-training/camping-at-the-presidio/
Cost  $45  Stipend:
The CAP Leadership Training is designed to provide group leaders with the skills and resources to plan and lead a youth camping trip in the Presidio and beyond. During the two-day, one-night training session, group leaders acquire technical camping skills and become familiar with the Presidio's natural and cultural resources. They are trained to lead place-based nature hikes and other outdoor activities as well as learn about the process for reserving a camping trip through the CAP program. After participants complete the CAP Leadership Training program, they can begin to prepare for their camping trip to the Presidio's Rob Hill Campground.

April 2016

3/31/2016 - 4/1/2016  Green Schools National Conference - Pittsburgh, PA  Green Schools National Network
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK
http://greenschoolsconference.org/
Cost  $375  Stipend:
The Green Schools Conference & Expo (GSCE) brings together green schools thought leaders and champions, including educators, school administrators, nonprofit and corporate partners, and elected officials, to advance the shared vision of green schools for all within this generation.
Creative Common Core Connections with Mathematical Cultural Figures!
For Grades: 5th;6th;7th;8th
http://www.raftbayarea.org/workshops
Cost $20 for members; $35 for non-members
Stipend:
Proportions, symmetry, area, volume, transformations on the plane, scale models, & more brought to life! Fun make & take Mathematical cultural figures (Hopi Kachina, African Akuaba, Japanese Kokeshi, & Russian Matryoshka) connect math with cultural history & art while supporting the Math Practices of the Common Core: Modeling with Mathematics; Looking for & Making use of Structure; Reasoning Abstractly, Attending to Precision; & Looking for & Expressing Regularity in Repeated Reasoning! Come join RAFT's Math Master Educator, Jeanne Lazzarini, and explore relevant creativity!

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

Education and Environmental Initiative (EEI)
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.californiaeei.org/training/
Cost FREE
Stipend:
Reservations required: Contact Karen, kfong@chabotspace.org
Subject: EEI; include name, grade, school district
Explore this FREE K-12 state-sponsored curriculum that teaches science and history-social science standards through an environmental lens. EEI helps students understand their relationship to the environment while preparing them to be critical thinkers and 21st century problem solver.

Science for the Non-Scientist
For Grades: K;1st;2nd;3rd;4th;5th;TK
http://www.raftbayarea.org/workshops
Cost $20 for members; $35 for non-members
Stipend:
Have you been asked to teach science for the first time but do not have the background? Are you intrigued by science but also intimidated by it? Perhaps you need a brief science refresher course. Then come and learn how to do simple science activities using common materials such as straws, bottles, magnets, lasers, UV light, dry ice, and much more! You will bend laser beams, explore Newton's Laws, tinker with air pressure, and many more cool activities that are sure to give students that "wow" factor. Best of all, you will learn how to explain the science behind them. This workshop is intended for those who are new to science teaching.

What's up with the Superheros?
For Grades: K;1st;2nd;PK;TK
http://www.raftbayarea.org/workshops
Cost $20 for members; $35 for non-members
Stipend:
In this workshop teachers will learn how to use the superhero movement to engage in STEAM ideas and positive social emotional thinking. Teachers will gain techniques on how to create a project-based learning lesson using design challenge steps, 21st Century thinking and hands-on activities. Empower students to become creative "lil' heroes."

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Printed: 2/2/2016 Professional Development
Environmental Education & Natural History Intensive
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 $150

NOTE: This class is limited to 18 students. Priority is given to classroom teachers and youth program leaders who would like to reserve the Clem Miller Environmental Education Center for an overnight stay. Designed for teachers, naturalists, environmental educators, and youth program leaders, this course provides 20 hours of intensive training in natural history, environmental education and program planning. Topics include animal tracking, native plant identification and uses, stream ecology, environmental education activities, nighthikes and campfire programs, leading a hike, integrating environmental education across the curriculum and program planning. The program is compatible with the California State Science Framework.

Teacher Educator Institute
For Grades: K;1st;2nd;3rd;4th;5th
http://www.eie.org/eie-curriculum/workshops-and-professional-development/workshops
Cost $500

At Science Museum of Minesota- If you’re a professional development provider, this workshop prepares you to facilitate EIE professional development workshops for teachers in your school, district, or state. Like all EIE workshops, our Teacher Educator Institute is hands-on and learner-driven. You’ll develop a deep understanding of the pedagogy and structure of the EIE curriculum. And you’ll take away a large collection of valuable resources to help you facilitate your own EIE workshops.

During this 2 ½ day workshop, you will
* experience two different EIE units as a learner and as a teacher.
* become familiar with the EIE curriculum, including the structure of the units and the pedagogical approach.
* gain foundational knowledge of technology, engineering, and the engineering design process.
* reflect on the strategies used by your workshop facilitators and the philosophical underpinnings of the EIE curriculum.

Ed Rev 2016
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.edrevsf.org/
Cost FREE for teachers

Education Revolution! EdRev provides a unique day of interaction among students, parents and educators, exploring ways to create new educational environments that fit the individual, instead of making the individual fit the environment. Everyone learns in a different and unique way; learning environments where this is appreciated and supported are the key to successful learning. Come to AT&T Park on Saturday, April 16 from 9-5. Educators get in for free! Also, be prepared to bring your kids so they can run the bases, have their faces painted, jump in the bounce house, and hear live music by one of the student groups.”

Cal Day Open House - April 16, 2016
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://calday.berkeley.edu/
Cost FREE

It's a day like no other. Spend it in Cal classrooms and labs, museums and performance halls, libraries, and arenas. Admission is free.

Imaginary Islands with Discarded Maps:
For Grades: K;1st;2nd;3rd;4th;5th;TK
http://www.raftbayarea.org/workshops
Cost $20 for members; $35 for non-members

Learn how to read a map, and the symbols that make up a map's informational legend. Develop your own map legend, as you transform yours into your own personal dream island.
Frontcountry Leadership Training (FLT) is an entry level course covers all the basic skills you will need to successfully take youth on car-camping based overnight trips. Skills covered include: camping safety, day-hiking, tent and stove-set up, clothing requirements, nutrition and team building activities. All learning is experiential. Prior to the weekend training, to get access to our gear libraries, participants also need to complete the Gear Orientation (GO!) training. This can be completed during the pre-trip meeting. Please note that Gear Orientations are offered in both our Oakland and Milpitas offices. Cost: The cost of the course covers all course materials, meals and camping. Participants will have to provide their own transportation to get to the location. The price is $65 for the first participants, and $50 for each additional participant from the same organization (Limit: 2 Discounts per organization). All registrations include a Gear Orientation and pre-trip meeting.

Tour Middle & High School
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.

The Hiking Leadership Training (HLT) is designed to train teachers and youth workers how to plan, organize, and lead fun and safe hikes with youth. Novice and experienced hikers will gain new leadership and facilitation skills. Some of the topics covered during the training include: fun games for the trail, leave no trace, the natural history of open spaces, risk management, meal planning, navigation, and more. Registration for this course includes snacks and lunch. Participants are expected to wear footwear appropriate for hiking. Bay Area Wilderness Training can provide boots upon request. Participants are not expected to buy new clothing for this training. The HLT is a partnership program between Bay Area Wilderness Training and the Santa Clara Valley Open Space Authority. Time: 9:30am to 3:30pm Location: South Bay open space preserves

The NCGS meets each last Wednesday of the month in Orinda at the Masonic Center, 9 Altarinda Rd. There is a social period at 6:30 p.m. At 7 p.m. a talk (no dinner). Cost is $5 per regular member; $1 per student member, and $1 per K – 12 teachers.

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.
May 2016

4/30/2016 FEAST -Fun Exchanges & Activities for Science Teachers K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th Chabot Space and Science Center http://www.chabotspace.org/feast.htm
Cost FREE Stipend:
(9am - 12pm) - Life Science - Free for Educators (must register in advance) - Have you been looking for new, exciting, teacher-tested ideas for your science classroom? Perhaps you’ve wanted to connect with others on science resources, safety in the lab or how other teachers manage certain science demonstrations and activities? Or maybe you simply want to network with and build relationships with other local science educators.

4/29/2016 - 5/1/2016 AEOE Statewide Spring Conference 2016 K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th Association of Environmental and Outdoor Education http://aeoe.org/events/
Cost $50 Stipend:
Statewide Spring Conference at Camp Hess Kramer in Malibu, CA.

5/2/2016 Data Collection Workshop - San Jose 4th;5th;6th;7th;8th;9th;10th;11th;12th Vernier http://www.vernier.com/training/workshops/
Cost FREE Stipend:
Free hands-on training to integrate data-collection technology into your science curriculum. Join Vernier for one of their free, 4-hour, hands-on workshops to learn how to integrate our computer and handheld, data-collection technology into your science curriculum. The workshops include lunch or dinner and lab handouts. These workshops are eligible for graduate credit. This is a great opportunity for teachers who
* Want to evaluate our award-winning, data-collection technology.
* Are new to data collection.
* Need a refresher course on their Vernier equipment.
* Want to learn from the experts.

5/3/2016 Data Collection Workshop - Oakland 4th;5th;6th;7th;8th;9th;10th;11th;12th Vernier http://www.vernier.com/training/workshops/
Cost FREE Stipend:
Free hands-on training to integrate data-collection technology into your science curriculum. Join Vernier for one of their free, 4-hour, hands-on workshops to learn how to integrate our computer and handheld, data-collection technology into your science curriculum. The workshops include lunch or dinner and lab handouts. These workshops are eligible for graduate credit. This is a great opportunity for teachers who
* Want to evaluate our award-winning, data-collection technology.
* Are new to data collection.
* Need a refresher course on their Vernier equipment.
* Want to learn from the experts.

5/4/2016 Data Collection Workshop - Sacramento 4th;5th;6th;7th;8th;9th;10th;11th;12th Vernier http://www.vernier.com/training/workshops/
Cost FREE Stipend:
Free hands-on training to integrate data-collection technology into your science curriculum. Join Vernier for one of their free, 4-hour, hands-on workshops to learn how to integrate our computer and handheld, data-collection technology into your science curriculum. The workshops include lunch or dinner and lab handouts. These workshops are eligible for graduate credit. This is a great opportunity for teachers who

* Want to evaluate our award-winning, data-collection technology.
* Are new to data collection.
* Need a refresher course on their Vernier equipment.
* Want to learn from the experts.

**5/4/2016 - 5/6/2016**

**Teacher Educator Institute**  
**Engineering is Elementary**  
http://www.eie.org/eie-curriculum/workshops-and-professional-development/workshops  
Cost $450  
Stipend:

In Boston - If you're a professional development provider, this workshop prepares you to facilitate EiE professional development workshops for teachers in your school, district, or state. Like all EiE workshops, our Teacher Educator Institute is hands-on and learner-driven. You'll develop a deep understanding of the pedagogy and structure of the EiE curriculum. And you'll take away a large collection of valuable resources to help you facilitate your own EiE workshops.

During this 2 ½ day workshop, you will
* experience two different EiE units as a learner and as a teacher.
* become familiar with the EiE curriculum, including the structure of the units and the pedagogical approach.
* gain foundational knowledge of technology, engineering, and the engineering design process.
* reflect on the strategies used by your workshop facilitators and the philosophical underpinnings of the EiE curriculum.

**5/6/2016**

**Common Core in the Garden**  
**Life Lab Science Program**  
http://www.lifelab.org/for-educators/workshops/gcworkshops/  
Cost $150  
Stipend:

Learn to use a school garden to provide a meaningful context in which students can apply their emerging skills in math and English language arts. Using lessons from The Growing Classroom activity guide, participants in this workshop will experience and discuss garden activities that support learning in math and language arts. Whether they are graphing the temperature of their compost pile over time; reading a recipe to make fresh salsa; writing a story from the perspective of an ant; or presenting to a buddy class on the animals that visited their sunflower patch, the opportunities for children to practice traditional academic subjects in the garden are limitless! 1 semester of graduate education credit available

**5/12/2016 - 5/13/2016**

**Everyone Engineers!**  
**Engineering is Elementary**  
http://www.eie.org/eie-curriculum/workshops-and-professional-development/workshops  
Cost $250  
Stipend:

In Boston - This workshop prepares elementary school teachers to use the EiE curriculum to integrate engineering and science instruction in the classroom.

This learner-driven workshop is designed to build your knowledge of engineering and your confidence in teaching it. You'll get hands-on experience with EiE materials and insights into the most effective strategies for teaching the curriculum. During this two-day, hands-on workshop, you will
* gain foundational knowledge of technology, engineering, and the engineering design process
* become familiar with how EiE curriculum units are structured
* become familiar with EiE’s underlying pedagogical approach
* experience two different EiE units, both as a learner and as a teacher
* reflect on the learning experiences your students will have with EiE
* reflect on the instructional strategies you’ve learned
5/19/2016  Webcast: Evolving Together: Parasites and Hosts
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.

5/13/2016 - 5/22/2016  Bay Area Teacher at Sea apply by 3/11/16
National Oceanic and Atmosphere Administration
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://cordellbank.noaa.gov/education/teachatsea2016.html
Cost  FREE
Stipend: Stipend and food
Cordell Bank and Gulf of the Farallones National Marine Sanctuaries and Point Blue Conservation Science are recruiting for one teacher to join the science team and learn about the offshore ecology in Cordell Bank and Gulf of the Farallones National Marine Sanctuaries. The teacher will assist in daily operations onboard the R/V Shimada and stay with the team on the research vessel. Travel and food stipend is included in this opportunity. The cruise will be hosted out of San Francisco. Dates of cruise May 13-22nd, 2016 (subject to change slightly) Application Deadline is March 11, 2016. Selection will be made by March 25th, 2016.

5/18/2016 - 5/22/2016  Wilderness Leadership Training Tahoe National Forest
Bay Area Wilderness Training
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.bawt.org/programs/training/leadership-training/wilderness-leadership-training/
Cost  $195-$700
Stipend: The Wilderness Leadership Training (WLT) is a five day intensive entry-level backpacking course at the heart of BAWT’s programs. It is designed to give you the tools you need to lead youth on multi-day backpacking adventures. After completing the course, you will gain full access to our gear libraries. The Wilderness Leadership Training consists of a pre-trip meeting and five days of backpacking in the Sierra Nevada Mountains. Skills learned include: clothing requirements, nutrition, equipment use, map and compass reading, basic wilderness first aid, leadership styles, group dynamics and more. Role playing exercises are used to give participants a realistic backcountry leadership experience. Food and transportation are provided and no previous experience is necessary. Cost: Fees for the WLT are on a sliding scale. Please choose the appropriate registration fee by selecting your agency’s annual budget (total support and revenue for the past fiscal year.) Please note: training costs for one individual are waived for organizations in exchange for the use of a 15-person passenger van.
$199,999 and under — $195.00 or $200,000-$999,999 — $295.00 or $1,000,000+ — $395.00 or Unaffiliated Individual — $695.00
If financial constraints prohibit you from signing up for the WLT, please consider applying for the full tuition Amy Chamberlain Scholarship Fund. For more information please contact us at programs@bawt.org.

5/20/2016 - 5/22/2016  Maker Faire - The World's Largest DIY Festival
Maker Faire
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.makerfaire.com/
Cost  $45-55
Stipend: A two-day, family-friendly event to MAKE, create, learn, invent, CRAFT, recycle, think, play and be inspired by celebrating arts, crafts, engineering, food, music, science and technology. Limited Number of FREE educator tickets at http://eepurl.com/xiEXj

5/25/2016  Monthly Lecture
Northern California Geological Society
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.ncgeolsoc.org/meetings.htm#Meetings
Cost  $1 for K-12 Teachers
Stipend:

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 2/2/2016  Professional Development
The NCGS meets each last Wednesday of the month in Orinda at the Masonic Center, 9 Altarinda Rd. There is a social period at 6:30 p.m. At 7 p.m. a talk (no dinner). Cost is $5 per regular member; $1 per student member, and $1 per K – 12 teachers.

June 2016

6/3/2016  Tour - Elementary  Lighthouse Community Charter School
For Grades: K;1st;2nd;3rd;4th;5th;6th  
http://www.eventbrite.com/o/lighthouse-creativity-lab-5950964179
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.

6/4/2016  Hiking Leadership Training  Bay Area Wilderness Training
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://www.bawt.org/programs/training/leadership-training/hiking-leadership-training/
Cost  $10 - includes lunch and snacks  Stipend:
The Hiking Leadership Training (HLT) is designed to train teachers and youth workers how to plan, organize, and lead fun and safe hikes with youth. Novice and experienced hikers will gain new leadership and facilitation skills. Some of the topics covered during the training include: fun games for the trail, leave no trace, the natural history of open spaces, risk management, meal planning, navigation, and more. Registration for this course includes snacks and lunch. Participants are expected to wear footwear appropriate for hiking. Bay Area Wilderness Training can provide boots upon request. Participants are not expected to buy new clothing for this training. The HLT is a partnership program between Bay Area Wilderness Training and the Santa Clara Valley Open Space Authority.
Time: 9:30am to 3:30pm
Location: South Bay open space preserves

6/9/2016  Webcast: Exploring the Solar System with Antarctic Meteorite  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.

6/8/2016 - 6/10/2016  Teacher Educator Institute  Engineering is Elementary
For Grades: K;1st;2nd;3rd;4th;5th  
http://www.eie.org/eie-curriculum/workshops-and-professional-development/workshops
Cost  $450  Stipend:
In Boston - If you’re a professional development provider, this workshop prepares you to facilitate EiE professional development workshops for teachers in your school, district, or state. Like all EiE workshops, our Teacher Educator Institute is hands-on and learner-driven. You’ll develop a deep understanding of the pedagogy and structure of the EiE curriculum. And you’ll take away a large collection of valuable resources to help you facilitate your own EiE workshops. During this 2 ½ day workshop, you will
* experience two different EiE units as a learner and as a teacher.
* become familiar with the EiE curriculum, including the structure of the units and the pedagogical approach.
* gain foundational knowledge of technology, engineering, and the engineering design process.
* reflect on the strategies used by your workshop facilitators and the philosophical underpinnings of the EiE curriculum.

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6/11/2016  Camping at the Presidio Training - 1-day  Bay Area Wilderness Training
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.bawt.org/programs/training/leadership-training/camping-at-the-presidio/
Cost $45  Stipend:
(1-day Sat. training for WLT/FLT Alumni) The CAP Leadership Training is designed to provide group leaders with the skills and resources to plan and lead a youth camping trip in the Presidio and beyond. During the two-day, one-night training session, group leaders acquire technical camping skills and become familiar with the Presidio’s natural and cultural resources. They are trained to lead place-based nature hikes and other outdoor activities as well as learn about the process for reserving a camping trip through the CAP program. After participants complete the CAP Leadership Training program, they can begin to prepare for their camping trip to the Presidio’s Rob Hill Campground.

6/13/2016 - 6/15/2016  Educator Workshops  Curiosity Hacked
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Cost $225  Stipend:
The Curiosity Hacked Educator Summer Camp is a 3 day immersion in learner centered education. Presentations and discussions will be led by CH, as well as by guest speakers on the topics of creating a more learner centered environment. Integrating making and hacking with a variety of tools, technology, and materials to create a more interdisciplinary day will be covered in theory as well as hands on practice. Tools such as the soldering iron, 3D printer, laser cutter, E-textiles, printmaking and more will be explored and mentored, resulting in personal projects they can use to inspire their own innovation and creativity as well as that of their students. Summer Camp will be led by Samantha Cook, Founder and ED of Curiosity Hacked, learning about creating/supporting a more learner-centered classroom environment through mentorship, hands-on making, and hacking to integrate skill building into existing curriculum. Participants will be gaining new skills, work with a variety of materials, and discuss relevant ideas and examples to enhance their own visions as well as those of their students. CH will offer a Professional Development certificate upon completion.

6/16/2016 - 6/18/2016  Educator Workshops  Curiosity Hacked
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Cost $225  Stipend:
The Curiosity Hacked Educator Summer Camp is a 3 day immersion in learner centered education. Presentations and discussions will be led by CH, as well as by guest speakers on the topics of creating a more learner centered environment. Integrating making and hacking with a variety of tools, technology, and materials to create a more interdisciplinary day will be covered in theory as well as hands on practice. Tools such as the soldering iron, 3D printer, laser cutter, E-textiles, printmaking and more will be explored and mentored, resulting in personal projects they can use to inspire their own innovation and creativity as well as that of their students. Summer Camp will be led by Samantha Cook, Founder and ED of Curiosity Hacked, learning about creating/supporting a more learner-centered classroom environment through mentorship, hands-on making, and hacking to integrate skill building into existing curriculum. Participants will be gaining new skills, work with a variety of materials, and discuss relevant ideas and examples to enhance their own visions as well as those of their students. CH will offer a Professional Development certificate upon completion.

6/12/2016 - 6/18/2016  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.

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Printed: 2/2/2016  Professional Development
Sierra Institute: Patterns, Proportions and Practices
For Grades: 3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.calalive.org/?q=professionaldevelopment
Cost $299 early bird reg. until 4/15

California Institute for Biodiversity
(June 17-19 and June 24-26, 2016) The 2016 Institute will investigate the Crosscutting Concepts Patterns and Scale, Proportion and Quantity looking at patterns within and across California habitats, how patterns can be scale dependent and how data collection and analysis can be used to link these concepts. We will be including lesson and materials from the HHMI BioInteractive Holiday lecture series, Patterns and Processes in Ecology, taking the patterns found in California to a more global scale and including interactive media and short videos. Join scientists, educators, and naturalists in the Sierra Nevada for this 6-day residential exploration of patterns, scale, proportions and quantities. We will focus on connecting the Blueprint for Environmental Literacy and the new Science Standards to K-12 teaching practices, all in support of school and district implementation of the new standards. Attendees will also learn how to include outdoor lessons, citizen science, environmental stewardship projects and wildlife cams into their curriculum whether in a rural, suburban or urban district.

Wilderness Leadership Training Tahoe National Forest
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.bawt.org/programs/training/leadership-training/wilderness-leadership-training/
Cost $195-$700

Bay Area Wilderness Training
The Wilderness Leadership Training (WLT) is a five day intensive entry-level backpacking course at the heart of BAWT’s programs. It is designed to give you the tools you need to lead youth on multi-day backpacking adventures. After completing the course, you will gain full access to our gear libraries. The Wilderness Leadership Training consists of a pre-trip meeting and five days of backpacking in the Sierra Nevada Mountains. Skills learned include: clothing requirements, nutrition, equipment use, map and compass reading, basic wilderness first aid, leadership styles, group dynamics and more. Role playing exercises are used to give participants a realistic backcountry leadership experience. Food and transportation are provided and no previous experience is necessary. Cost: Fees for the WLT are on a sliding scale. Please choose the appropriate registration fee by selecting your agency’s annual budget (total support and revenue for the past fiscal year.) Please note: training costs for one individual are waived for organizations in exchange for the use of a 15-person passenger van. $199,999 and under — $195.00 or $200,000-$999,999 — $295.00 or $1,000,000+ — $395.00 or Unaffiliated Individual — $695.00

If financial constraints prohibit you from signing up for the WLT, please consider applying for the full tuition Amy Chamberlain Scholarship Fund. For more information please contact us at programs@bawt.org.

Teacher Research Academies
For Grades: 6th;7th;8th;9th;10th;11th;12th
https://education.llnl.gov/programs/teacher-research-academies/summer-schedule
Cost $20

Lawrence Livermore National Laboratory
Registration opens end of January - The Teacher Research Academy (TRA) offers middle school, high school and community college faculty unique professional development experiences at Lawrence Livermore National Laboratory (LLNL). TRA teachers participate in a continuum of standards-based instruction, enabling them to progress from novice to mastery in exciting scientific disciplines while they experience the application of real world science in an environment teachers seldom experience.
3D Print & Design
Biotechnology Research Academy
Computational Modeling Academy
Fusion & Astrophysics Research Academy
Technical Writing for Science Class

Frontcountry Leadership Training (FLT)
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.bawt.org/programs/training/leadership-training/frontcountry-leadership-training/
Cost $65/$50 for 2bd participant from same school

Bay Area Wilderness Training
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Printed: 2/2/2016 Professional Development
Frontcountry Leadership Training (FLT) is an entry level course covers all the basic skills you will need to successfully take youth on car-camping based overnight trips. Skills covered include: camping safety, day-hiking, tent and stove-set up, clothing requirements, nutrition and team building activities. All learning is experiential. Prior to the weekend training, to get access to our gear libraries, participants also need to complete the Gear Orientation (GO!) training. This can be completed during the pre-trip meeting. Please note that Gear Orientations are offered in both our Oakland and Milpitas offices. Cost: The cost of the course covers all course materials, meals and camping. Participants will have to provide their own transportation to get to the location. The price is $65 for the first participants, and $50 for each additional participant from the same organization (Limit: 2 Discounts per organization). All registrations include a Gear Orientation and pre-trip meeting.

6/20/2016 - 6/24/2016  
Resilient Schools Training- reg by 4/3/16  
Occidental Arts and Ecology Center

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://oaec.org/events/courses-overview/resilient-schools-training/

Cost  $1125/person for teams of 3

Stipend:

OAEC’s Resilient Schools Program supports public school districts nationwide serving vulnerable populations in designing long-term ecological, economic and cultural resilience into their classroom curriculum, campus environment, and surrounding community. Our Resilient Schools Training supports school community leadership teams to facilitate the development of a long term Resilience Action Plan (RAP), including sustainable facilities design, curricular integration and community involvement. The RAP strategically addresses a school’s academic, economic, climate and social needs yielding increased academic success, financial savings, ecological benefits and community preparedness. Participants will leave with a Resilience Action Plan (RAP) proposal for ongoing work and implementation with their school community, and have access to training and support opportunities from OAEC staff.

Who should apply?

Your Leadership Team should include an array of school community stakeholders who are passionate about supporting the ecological, academic, economic and social needs of their community: School Board members, District Ecoliteracy Content Specialists, School Administrators, Community Organizers & Leaders, local government agency staff or officials with climate mitigation or adaptation mandates, School Site Sustainability Directors, District Facilities Directors, Parent Association Leadership, Farm to Cafeteria Directors, and Teachers (Department Heads, Directors of Professional Development, Environmental Science, CTE). Be sure that your team is representative of several stakeholder groups.

3 Team Members: $1125/person (Early Bird until March 15, 2016); $1195/person (Regular Registration)
4 Team Members: $1025/person (Early Bird until March 15, 2016); $1095/person (Regular Registration)
5 Team Members: $925/person (Early Bird until March 15, 2016); $995/person (Regular Registration)

6/20/2016 - 6/24/2016  
Coastal Systems Teacher Institute - Level 1  
Monterey Bay Aquarium

For Grades: 3rd;4th;5th
http://www.montereybayaquarium.org/lc/teachers_place/edu_program_cycles.aspx

Cost  FREE

Stipend:  $100/day

Follow-up Sessions: October 29, 2016; January 21, 2017; and April 8, 2017

Explore the amazing animals of Monterey Bay's marine ecosystems first-hand. With colleagues, Aquarium educators and scientists, you'll conduct your own field investigations, learn to implement science notebooks, and experience how authentic science writing can improve your students' science literacy. With a focus on Systems—one of Next Generation Science Standards’ crosscutting concepts—you'll learn how to integrate process skills, science and engineering practices, and technology to get your students excited about protecting the world's oceans. This free institute provides opportunities to:
* Engage in inquiry-based activities that support the Common Core State Standards and Next Generation Science Standards.
* Explore, question, investigate, collaborate and create at the Aquarium and at local field sites.
* Integrate language arts, math and social studies with science content and process skills.
* Network with Aquarium educators and colleagues from around California.

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Printed: 2/2/2016  Professional Development
2016 Science Summer Teacher Institutes - deadline 2/29/16
Library of Congress
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.loc.gov/teachers/professionaldevelopment/teacherinstitute/
Cost FREE workshop - You provide transportation & accommodation
Stipend: Immerse yourself in the practice of teaching with primary sources from the unparalleled collections of Library of Congress this summer. Apply to attend a week-long professional development program for K-12 educators in the nation’s capital.
In 2016, the Library will offer five Institute weeks:
* Open sessions (any subject area): June 27-July 1, July 11-15, July 18-22, and July 25-29
* Science focus: June 20-24
Each Institute week, Library of Congress education specialists facilitate sessions modeling strategies for using primary sources to engage students, build critical thinking skills, and construct knowledge. Participants reflect on and discuss how the strategies apply to their students, subject areas, and classrooms or school libraries. During the week, participants draw from among the millions of digitized primary sources in the Library’s collections to design and refine a primary source activity to use with their students. While the emphasis is on learning and applying teaching strategies, participants also have opportunities to meet experts from the Library and possibly to research in the Library’s reading rooms to gather information and resources to use in developing their activities. In the school year following the Institute, educators are expected to implement a primary source based activity and share outcomes with Institute staff and their session cohort. Library staff will provide resources for participants to facilitate sharing what they have learned with colleagues in their professional networks. Finally, participants also have an option of completing additional work to pursue graduate credit in history from George Mason University.

Biodiversity Academy - apply by 4/30
Smithsonian
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
https://ssec.si.edu/professional-development
Cost $2,500
Stipend: includes the cost of materials &
This year’s academy on Biodiversity will enable K–12 teachers to interact directly with Smithsonian scientists, curators, and collections on topics ranging from the origins of biodiversity to monitoring, measuring, and conserving it. Participants will meet Smithsonian staff from a variety of sites and be introduced to concepts and activities to bring back to their schools and classrooms. The SSEATs Academies provide teachers with an opportunity to take part in a week-long professional development course behind-the-scenes at Smithsonian museums and other world class research facilities throughout the greater Washington, DC area. The academies help to bridge the gap between the formal science education programs of the SSEC and the informal science education that exists throughout the Smithsonian, and combine training in science pedagogy with content presented by scientists and researchers who are experts in their fields. Tuition for each Academy is $2,000 and includes: Course materials and resources; Accommodations for 5 nights (Sunday – Thursday); Daily continental breakfasts, breaks, and lunches (Monday – Friday); Welcome dinner on Sunday and celebratory dinner later in the week; All local travel (excluding airport transit)

Forestry Institute for Teachers - Tuolumne 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.

July 2016

Lick Observatory Teacher Institute (LOTI) - apply by 3/21/16
Multiverse
For Grades: 6th;7th;8th;9th;10th;11th;12th
http://multiverse.ssl.berkeley.edu/Programs/LickObservatoryTeacherInstitute
Cost $575
Stipend: fee covers lodging, meals, prog

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Printed: 2/2/2016
Professional Development
Lick Observatory offers a unique setting for teacher professional development: the Observatory and Visitor Center on Mount Hamilton, just 20 miles east of San Jose, California. Tours of the telescopes, discussions with the research astrophysicists in residence, and nighttime observations are an integral part of the LOTI experience. Not only will you do inquiry-based activities aligned with Common Core and Next Generation Science Standards, you will practice your new astronomy skills under the Observatory's dark skies, weather permitting, and partner with trained and nationally recognized astronomy educators.

* inquiry-based activities that are Common Core and Next Generation Science Standards-aligned
* immersion: 3 days & 2 nights at the Observatory
* meet astronomers and discuss current astronomical research
* meet and network with colleagues
* practice basic astronomy skills

The LOTI workshop is available at $575/participant. This fee covers lodging, meals, program fees, and instructional materials. A $100 deposit is due April 18, 2016, and the remaining fee is due May 16, 2016.

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<tr>
<th>Date</th>
<th>Event Description</th>
<th>Website</th>
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<tbody>
<tr>
<td>6/26/2016 - 7/2/2016</td>
<td>Forestry Institute for Teachers - Shasta County</td>
<td><a href="http://www.forestryinstitute.org/">http://www.forestryinstitute.org/</a></td>
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<tr>
<td>Cost</td>
<td>$25</td>
<td>Stipend:</td>
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<tr>
<td>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.</td>
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<tr>
<td>Cost</td>
<td>Stipend available</td>
<td>$2500</td>
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<td>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 three-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.</td>
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<tr>
<td>7/7/2016 - 7/9/2016</td>
<td>The Edible Schoolyard Intensive</td>
<td><a href="http://edibleschoolyard.org/academy">http://edibleschoolyard.org/academy</a></td>
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<tr>
<td>Cost</td>
<td>$650</td>
<td>Stipend: breakfast and lunch for four day</td>
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<td>Thursday, July 7th through Saturday, July 9th – Bring your school or district's team of farm to school stakeholders to the Edible Schoolyard Intensive to develop your holistic approach to long-term program success. The three-day training will focus on strengthening relationships between food service staff members, school and district leadership, and classroom, garden and kitchen educators. Participants will learn strategies for integrating innovative food procurement and hands-on experiential learning that teaches children how to grow, cook, understand, and value food in their daily lives.</td>
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<td>Cost</td>
<td>$2375 land only</td>
<td>Stipend:</td>
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<tr>
<td>The July 1-11, 2016 Educator Academy in the Amazon Rainforest of Peru is a cross-curricular professional development workshop for K-12 formal and informal educators. Deadline to apply for one of three $1,000 scholarships is Feb 1, 2016. Get all the details and download a syllabus and scholarship application</td>
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<tr>
<td>7/14/2016 - 7/15/2016</td>
<td>Everyone Engineers!</td>
<td><a href="http://www.eie.org/eie-curriculum/workshops-and-professional-development/workshops">http://www.eie.org/eie-curriculum/workshops-and-professional-development/workshops</a></td>
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<tr>
<td>Cost</td>
<td>$250</td>
<td>Stipend:</td>
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Printed: 2/2/2016 Professional Development
In Boston - This workshop prepares elementary school teachers to use the EiE curriculum to integrate engineering and science instruction in the classroom. This learner-driven workshop is designed to build your knowledge of engineering and your confidence in teaching it. You’ll get hands-on experience with EiE materials and insights into the most effective strategies for teaching the curriculum. During this two-day, hands-on workshop, you will
* gain foundational knowledge of technology, engineering, and the engineering design process
* become familiar with how EiE curriculum units are structured
* become familiar with EiE’s underlying pedagogical approach
* experience two different EiE units, both as a learner and as a teacher
* reflect on the learning experiences your students will have with EiE
* reflect on the instructional strategies you’ve learned

7/11/2016 - 7/15/2016   School Garden Training - reg by 4/3/16   Occidental Arts and Ecology Center
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://oaec.org/courses/school-garden-teacher-training/
Cost   $850   Stipend:
This five-day intensive residential training offers hands-on skills and theoretical approaches to promote and support the creation of school gardens. The course will focus on integrating the school garden into all curricula and state standards, as well as exploring nutrition, recycling, project-based learning, art, team building, and fundraising. This course is designed for teams of teachers, parents, administrators, and volunteers who have a relationship with a specific school and wish to create or improve a school garden. Involvement in the training entitles participating teams to school garden curricula, an extensive resource binder, two skills workshops, and follow-up site visits by OAEC staff at schools throughout the following year.

7/10/2016 - 7/15/2016   Energy's Innovations And Implications Academy - apply by 4/30/16   Smithsonian
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
https://ssec.si.edu/professional-development
Cost   $2,500   Stipend: includes the cost of materials &
This year, the Energy’s Innovations and Implications Academy will explore the history of energy development and use in the United States, current energy needs, and alternative energy sources for the future. Topics will include fossil fuels, solar power, wind power, nuclear energy, and alternative energy sources. K-12 teachers will have opportunities to explore the history of Energy as well as learn from experts in the field of energy development who are carrying out research in the greater Washington, DC area. Teachers will develop skills and knowledge to bring back to their students and classrooms.

The SSEATs Academies provide teachers with an opportunity to take part in a week-long professional development course behind-the-scenes at Smithsonian museums and other world class research facilities throughout the greater Washington, DC area. The academies help to bridge the gap between the formal science education programs of the SSEC and the informal science education that exists throughout the Smithsonian, and combine training in science pedagogy with content presented by scientists and researchers who are experts in their fields.

Tuition for each Academy is $2,000 and includes: Course materials and resources; Accommodations for 5 nights (Sunday – Thursday); Daily continental breakfasts, breaks, and lunches (Monday – Friday); Welcome dinner on Sunday and celebratory dinner later in the week; All local travel (excluding airport transit)

7/10/2016 - 7/16/2016   Forestry Institute for Teachers - Humboldt County   Forestry Institute for Teachers
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.forestryinstitute.org/
Cost   $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;9th;10th;11th;12th
http://www.need.org/summertraining
Cost   $1400   Stipend:

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Printed: 2/2/2016   Professional Development
The 2016 Energy Conference for Educators brings together educators that are passionate about bringing energy education to their classrooms. Meeting is in Greater Washington DC. Participants receive the training and materials to implement innovative hands-on energy units in their classrooms, multi-disciplinary teams, and after-school programs. They also receive the materials, training and support to conduct in-services in their areas to introduce the NEED program to others. NEED leaders at the conference help participants develop specialized units that meet state standards and can be utilized with students of all learning styles.

7/17/2016 - 7/22/2016  
Earth’s History & Global Change - apply by 4/30/16  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
https://sseci.si.edu/professional-development  
Cost $2500  
Stipend:  
In Washington DC - Global climate change will impact the lives of all inhabitants of our planet and is becoming a key issue taught in our classrooms. This new Earth’s History and Global Change Academy looks at change from the perspective of the history of the earth from its formation, through the origins of life and its impacts. Topics will include planetary processes, volcanism and plate tectonics, the changing oceans, and atmosphere. Each day participants will engage earth scientists at the Smithsonian museums and elsewhere in hands-on content sessions that take them behind the scenes, to look at how current research provides evidence of our planet’s past environments. $2500 includes course materials, accommodations (TBA), daily breakfast and lunch, a Sunday evening reception and orientation, an evening celebratory meal, all local travel (excluding airport transit). There is a $500 discount for those forgoing hotel stay, and other discounts may apply.

7/18/2016 - 7/22/2016  
CDC Science Ambassadors - apply by April 15  
For Grades: 6th;7th;8th;9th;10th;11th;12th  
Cost travel and accommodations  
Stipend:  
During the 5 day workshop, you will have the opportunity to:  
* Interact and collaborate in teams with CDC scientists  
* Participate in multiple sessions on selected public health topics led by CDC experts  
* Collaborate with fellow educators and CDC staff to develop model public health lesson plans for use in classrooms and publication on the Science Ambassador website  
* Enhance your professional network of educators and public health officials  
* Tour CDC facilities (including the David J. Sencer CDC Museum)  
* Present draft lesson plans to your colleagues and CDC staff  
Educators who complete and meet the expectations of the workshop will earn three (3) Professional Learning Units.  
PLEASE NOTE: The Science Ambassador Workshop is limited to a maximum of 16 participants. Submit your documents for consideration early. No registration fee is required; however, selected participants are responsible for travel and accommodation expenses.

7/20/2016 - 7/22/2016  
Teacher Educator Institute  
For Grades: K;1st;2nd;3rd;4th;5th  
http://www.eie.org/eie-curriculum/workshops-and-professional-development/workshops  
Cost $450  
Stipend:  
In Boston - If you're a professional development provider, this workshop prepares you to facilitate EiE professional development workshops for teachers in your school, district, or state. Like all EiE workshops, our Teacher Educator Institute is hands-on and learner-driven. You'll develop a deep understanding of the pedagogy and structure of the EiE curriculum. And you'll take away a large collection of valuable resources to help you facilitate your own EiE workshops.  
During this 2 ½ day workshop, you will  
* experience two different EiE units as a learner and as a teacher.  
* become familiar with the EiE curriculum, including the structure of the units and the pedagogical approach.  
* gain foundational knowledge of technology, engineering, and the engineering design process.  
* reflect on the strategies used by your workshop facilitators and the philosophical underpinnings of the EiE curriculum.
**Splash Zone Teacher Institute**  
7/22/2016
For Grades: K;1st;2nd
http://www.montereybayaquarium.org/lc/teachers_place/edu_program_splashzone.aspx
Cost: FREE  
Stipend: $100/day

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 19, 2016; February 25, 2017; and May 6, 2017

**Institute for Middle School Science Teachers Deadline 3/4/16**  
7/27/2016
For Grades: 6th;7th;8th
http://www.nist.gov/iaao/teachlearn/
Cost: FREE including travel & hotel  
Stipend: $2000

July 11-27, 2016. 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

**Summer Astronomy Institute: Space Science and the NGSS**  
7/28/2016
For Grades: 5th;6th;7th;8th;9th;10th;11th;12th
https://www.astrosociety.org/education/k12-educators/
Cost: $400  
Stipend: Scholarships are Available for C

This 4-day workshop will cover classroom tested, inquiry-rich activities designed to help students learn the processes of science through the study of space science with explicit alignment to the three dimensions of the Next Generation Science Standards and connections to literacy and the Common Core. Workshop strands include: Astronomy and the NGSS, Tools of the Astronomer, Exploring the Solar System, and the Sun-Earth Connection. Two units of academic credit available through The University of the Pacific. In addition to 4-days of activities, participants receive The Universe at Your Fingertips 2.0 DVD, a $30 value and a class set of 10 Galileoscopes, a $250 value. A limited number of scholarships are available for classroom teachers. Scholarships are $300 available

**Teacher Institute on Science and Sustainability - reg by 3/15**  
7/29/2016
For Grades: 3rd;4th;5th
https://www.calacademy.org/educators/teacher-institute-our-impact
Cost: FREE  
Stipend: $1500/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).
K-12 Science Institute for Leadership Development & Strategic Planning

Smithsonian

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

https://ssec.si.edu/leadership-development

Cost $7,000 per 5-person team. 1,500 for each additional individual

Stipend: includes the cost of materials & Friday, June 10, 2016. Are you looking to improve your science education program but don’t know where to begin? At this intensive week-long Institute, you and your team of dedicated educators, administrators, and stakeholders will gain an in-depth understanding of the LASER Model. We address the elements necessary for a quality science education program from the research behind how children learn to the mechanics of implementing an inquiry-based science curriculum. Content-driven sessions and activities delivered by a range of experienced professionals in the field are balanced with opportunities to plan strategically as a team.

FOSS - Implementing the Next Generation Science Standards

Lawrence Hall of Science

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


Cost $175 or $150/team member

Stipend: choice of FOSS Next Gen teach

The FOSS Leadership Team from the Lawrence Hall of Science can help you start teaching the Next Generation Science Standards (NGSS) with FOSS, building on your use of the current FOSS CA Edition and moving toward FOSS Next Generation. We will share strategies and tools designed to help your team meet the expectations of the guiding principles of CA Framework using FOSS materials. We will:

• Learn to implement scientific and engineering practices, engage with crosscutting concepts, and develop the disciplinary core ideas of science.
• Make connections to the CA ELA/ELD Framework to simultaneously promote and advance content knowledge, scientific practices, and academic language literacy.
• Construct explanations and engage in argumentation from evidence as tools to deepen student knowledge.

The institute is designed for science coordinators, lead elementary teachers, coaches, ELA/ELD coordinators, professional developers and administrators.

MBARI EARTH Workshop (apply by Jan 29, 2015)

Monterey Bay Aquarium

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

http://www.mbari.org/EARTH/

Cost Housing not provided

Stipend: $500/week for 10 weeks; partial

The workshop for EARTH 2016 will be held July 24-29 at Rutgers University in NJ, and co-hosted by a new NSF funded program (Polar Integrated Curriculum Education). A requirement of the application process is to trial an EARTH lesson, complete the feedback rubric (word version), and mail the rubric to George Matsumoto (earthATmbariDOTorg). Applications should include a completed rubric and a cover letter that includes the following information: your school/district, grade level/s, subject/s taught, and email/phone contact (both school and personal as the school email system sometimes rejects our group emails). Please also address the following questions: Why do you want to be selected for this workshop? What makes you the ideal candidate? Application deadline is January 29th, 2016.

STEM Forum & Expo - Denver

National Science Teachers Association

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

http://www.nsta.org/conferences/stem.aspx

Cost $180 early bird

Stipend:

The dynamic, 5th Annual STEM Forum & Expo hosted by NSTA, brings together educators and organizations who are actively implementing STEM programs in their schools or districts. Come prepared to learn tactics that work, build your professional learning network, connect with effective outreach programs and partnerships, discover new resources, and build a strong curriculum. Derek Muller (@Veritasium) created the leading science YouTube channel, Veritasium, that features experiments, expert interviews, cool demos, and discussions with the public about “everything science.”

August 2016

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

Printed: 2/2/2016 Professional Development
Camping at the Presidio Training

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

http://www.bawt.org/programs/training/leadership-training/camping-at-the-presidio/

Cost $45

Stipend:

The CAP Leadership Training is designed to provide group leaders with the skills and resources to plan and lead a youth camping trip in the Presidio and beyond. During the two-day, one-night training session, group leaders acquire technical camping skills and become familiar with the Presidio's natural and cultural resources. They are trained to lead place-based nature hikes and other outdoor activities as well as learn about the process for reserving a camping trip through the CAP program. After participants complete the CAP Leadership Training program, they can begin to prepare for their camping trip to the Presidio's Rob Hill Campground.

Project-Based Science Teacher Institute - Level 1

For Grades: 6th;7th;8th

http://www.montereybayaquarium.org/education/teacher-programs/project-based-science-institute

Cost FREE

Stipend: $100/day

follow up Sessions: November 5, 2016; March 4, 2017; and May 13, 2017

Project-based science supports the shift to more student-centered teaching. The hands-on, collaborative nature of projects provides a learning experience that models best science-teaching practices and integrates Next Generation Science Standards and the Common Core State Standards. 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!

Linking the E & M in STEM

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

http://www.eie.org/eie-curriculum/workshops-and-professional-development/workshops

Cost $300

Stipend:

In Boston - EiE’s newest workshop for elementary teachers will give you strategies for integrating EiE lessons with the Common Core State Standards for Math, while preparing you to confidently use EiE units with your students. Spend two full days experiencing hands-on activities from the EiE units. You’ll explore examples of activities that provide meaningful math/engineering integration, collaboratively plan your own integration, and leave with resources to help transfer your learning to the classroom.

Inventing Our Future - Summer Institute 2016

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

http://www.inventingourfuture.org/

Cost $200

Stipend:

Restoring Our Common Humanity through Storytelling
Tuesday: Compassion for Self and Others
Wednesday: Recognizing Our Community Assets
Thursday: The Courage to Act

IISME Summer Fellowships - apply by 3/1/16

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

http://iisme.org/teachers

Cost FREE

Stipend: $9000

Places K-16 teachers of all subjects into high-performance work sites for the summer. Teachers complete a project for their sponsors and are paid $8,200 for their work. Teachers also spend time focusing on ways to transfer their Summer Fellowship experience back to their students and colleagues.

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

Printed: 2/2/2016

Professional Development
Teacher Educator Institute
For Grades: K;1st;2nd;3rd;4th;5th
http://www.eie.org/eie-curriculum/workshops-and-professional-development/workshops
Cost $450

In Boston - If you’re a professional development provider, this workshop prepares you to facilitate EiE professional development workshops for teachers in your school, district, or state. Like all EiE workshops, our Teacher Educator Institute is hands-on and learner-driven. You’ll develop a deep understanding of the pedagogy and structure of the EiE curriculum. And you’ll take away a large collection of valuable resources to help you facilitate your own EiE workshops.

During this 2 ½ day workshop, you will
* experience two different EiE units as a learner and as a teacher.
* become familiar with the EiE curriculum, including the structure of the units and the pedagogical approach.
* gain foundational knowledge of technology, engineering, and the engineering design process.
* reflect on the strategies used by your workshop facilitators and the philosophical underpinnings of the EiE curriculum.
Professional Development

By Arrangement at Your School or Available Ongoing on Your Own

By Arrangement

Your Own Design or Pick one of their topics

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.

Already Designed Workshops:
* Dirt Made my Lunch
* Sun, Soil, Water, and Air
* Feathers, Fur, Scales, and Skin

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

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.

Professional Development at your School

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

Whole School Science Professional Development

Community Resources for Science
http://www.crsscience.org/educators/workshops

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

Printed: 2/2/2016

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

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

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

Brian Campbell 510-664-4747 brcampbell@berkeley.edu or Joanna Totino 510-643-3478 jtotino@berkeley.edu

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

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

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 2/2/2016
RAFT Outreach Workshops
http://www.raft.net
RAFT offers a variety of hands-on science workshops for teachers. They can be scheduled at your school. Topics include - THE POWER OF HANDS-ON TEACHING, On The Move: Science Workshops: (Catch a Wave, A Model Science Class, Let's Mix Things Up, Attractive Science! Exploring Magnetism). Price includes teaching kits

Teacher Training/Team Building - Physical Sciences
http://rockitscience.com/teacherworkshops/
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:$1000 for 3 hours

Teaching the 4Rs - Reduce, Reuse, Recycle & Rot/Compost
StopWaste.org
http://www.stopwaste.org
Gain valuable skills in leading your students through classroom activities that demonstrate the 4Rs: Reduce, Reuse, Recycle and Rot/Compost while teaching science concepts and ways to reduce waste and conserve natural resources.

School Site Specific Trainings
http://botanicalgarden.berkeley.edu/education/k12.shtml#etpdanchor
Our Education staff offer unique tools and support for diverse school communities to transform gardens into enriched educational resources. Teachers, parents, garden educators and community members can all be a part of the process in accomplishing learning goals for children through garden-based education. Our fee-based workshops can be customized to meet your needs. Past topics include:
* Botany on Your Plate curriculum
* Math in the Garden curriculum
* Using the Garden Environment for Afterschool Programs
* School Garden Planning and How-To’s
* Integrating Academics into the Garden
* Nutrition from Fruits and Vegetables
* Linking Garden Activities to State Standards
For more information, contact the Education Program Coordinator

Ongoing

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

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

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

Web Based Professional Development
Heinemann

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 2/2/2016 Bring Professional Development to your School
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.

**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**


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.

**Rock-it Science Teacher Community**

http://rockitscience.com/teachercommunity/

This online community is for adventurous teachers and homeschool parents who want to teach science the Rock-it Science way. Registration is FREE. As a registered member of our Teacher Community, you can:

* Read introductory Teacher’s Guide, “How to Present a Rock-it Science Lesson”.
* View our Lesson Videos. See the lessons as they were presented in our laboratory classroom with hands-on experiments.
* Download the corresponding Teacher Guides, which contain a complete transcript of the video, photos, an equipment list, and Quick Reference Guides.
* View our Teacher Workshop videos, where adults get to experience our lessons exactly the way students do, including the crazy stories and hands-on experiments. But they also get to ask questions about the equipment and materials, discuss any concerns they may have about how their own students might respond to the lesson, and get ideas about how to present the lessons themselves.
* Read Mr. Mac’s Blog
* Get answers to your questions and share ideas with other teachers in our Teacher Support Forum.
Teacher Grants: Specific Deadlines

Keep turning to the back of these pages to find grants with ongoing or rolling deadlines

February 2016

2/19/2016

Gro1000 Grass Roots Grant
Scotts Miracle Grow
http://scottsmiraclegro.com/corporate-responsibility/gro1000/

Scroll to bottom of page to find grant application. Grassroots Grants are awarded to local communities to help bring edible gardens, flower gardens and public green spaces to neighborhoods across the United States.

2/27/2016

Opal Apple Youth Make A Difference Grants
Opal Apples
http://www.opalapples.com/cause.aspx

The Opal Apple Youth Make a Difference will award funding to youth-based initiatives serving their communities in the U.S. where youth, ages 6 – 25, take leadership roles in the initiative. We are looking for organizations seeking grant dollars in the range of $5,000 - $20,000. The initiatives chosen will address one or more issues of: Food security, Nutrition, Agriculture, Food politics and education.

2/29/2016

Berkeley USD ONLY - Teacher Summer Fellowships
Berkeley Public Schools Fund
http://www.berkeleypublicschoolsfund.org/grants/summer-fellowships/

Teacher Summer Fellowships support teachers to undertake a significant summer learning project of their choosing that will add greater depth, understanding, and breadth of perspective to their teaching practice. Applications for 2016 Summer Fellows will open on February 1.

March 2016

3/1/2016

DuPont Challenge Essay - Elementary
DuPont
http://thechallenge.dupont.com/elementary/

day of fun science plus trip to NSTA conference

Each grade level of the Elementary Division has different requirements for student submissions. Familiarize yourself with the Challenges for your grade level. For example, younger grades have more drawings and artwork in their finished presentations, while for older grades have more original writing.

3/2/2016

Innovation Generation Grants for STEM education program
Motorola Solutions Foundation

$10,000-$50,000

Schools and organizations should be able to demonstrate how their program will provide a measurable change in STEM awareness, skills and education through the use of evaluation systems and appropriate measurement tools. Schools and organizations that demonstrate how their respective programs will move students through the education pipeline to more advanced STEM education or careers are also encouraged to apply.

3/4/2016

Waste Reduction Grant
Altamont Education Advisory Board
http://www.altamonteab.org/

$500-$3,000

The objectives of the Education Advisory Board are to promote waste prevention and recycling, job training and education through: 1. Waste prevention and recycling programs that serve schools (recycling supplies, program materials and other education activities such as field trips); 2. Community education through waste prevention and recycling education programs. 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.

3/4/2016

Kids to Park Day National School Contest
National Park Trust
http://parktrust.org/school-contest

Up to $1000

National Park Trust’s annual Kids to Parks Day National School Contest empowers students to create and plan their own park experience. Open to all Title 1 schools in grades Pre-K through 12, this contest provides grants of up to $1,000 to cover transportation, park-related fees, stewardship supplies, etc. Our 2016 contest will be awarding 100 park grants to 100 schools nationwide.

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

Printed: 2/1/2016
3/15/2016  Braithmayer Foundation $10,000 Grant  
http://www.braithmayerfoundation.org/how-to-apply/  
The Braithmayer Foundation
Grants for: curricular and school reform initiatives; and preparation of and professional development opportunities for teachers, particularly those whom encourage people of high ability and diverse background to enter and remain in K-12 teaching.

3/15/2016  CRS Science Super Star Challenge  
http://www.crscience.org/educators/SSSprogram  
Community Resources for Science
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!
***You must be a CRS member at an elementary school to qualify.***

3/19/2016  FREE lab supplies - BIO-LINK Depot  
http://biolinkdepot.org/index.php/get-supplies/  
City College of San Francisco
10AM-2 PM - Lab equipment give away for middle and high schools. Lots of great equipment, but you need to follow the rules. Don't forget to read their website.

3/27/2016  Doug Prouty Classroom Grant Program  
http://www.eastbaycue.org/  
East Bay Computer Using Educators
Must be an EBCUE member. The Doug Prouty Classroom Grant Program funds K-12 classroom teachers who want to implement creative, innovative, and student-centered uses of technology in the core curriculum. The grant funds specific, curriculum-based activities/projects that a classroom teacher wishes to implement.

April 2016

4/1/2016  Future Organic Farmer Grant Fund- Opens  
California Foundation for Agriculture in the Classroom
$1,000 grants awarded to 20 schools through a partnership with the California Foundation for Agriculture in the Classroom. Grants are available for K-8 teachers nationally for agricultural classroom projects that follow the organic production standards of the USDA.

4/1/2016  Elementary Teacher Award  
http://www.paemst.org/controllers/home.cfc?method=view  
The Presidential Awards for Excellence in Mathematics and Science Teaching
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.

4/13/2016  Carton 2 Garden  
http://carton2garden.com/  
KidsGardening.org
Show your students’ creativity by re-purposing milk and juice cartons from your school cafeteria to either build or enhance your school garden. Educators can engage students in a hands-on experience creating teachable moments on environmental stewardship, sustainable packaging and healthy living. The best use of cartons in a school garden gives your school the chance to win one of 14 prizes with a grand prize valued at $5,000.

4/15/2016  Teacher Development Grants  
http://www.mccartheydressman.org/teacher.html  
McCarthey Dressman Education Foundation
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

4/15/2016  Youth Creativity Grants  
http://bit.ly/1v5rDYq  
LEGO Children's Fund
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.

4/20/2016  2016 Discovery Education 3M Young Scientist Challenge  
http://www.youngscientistchallenge.com/2016-challenge  
Discovery Education
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."

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

Printed: 2/1/2016  Teacher Grants
Grants for Berkeley USD only

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.

Service Learning Grants

http://www.sfyab.com/apply/national-grants/

The Youth Advisory Board is currently funding service-learning projects between $25,000 and $100,000 that address the root cause of the following issue areas: Access to Higher Education/Closing the Achievement Gap, Economic Empowerment and Financial Literacy, Community Safety and Justice, Health & Wellness, Environmental Responsibility, or Arts and Culture

Environmental Education Grants

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

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.

SeaWorld & Busch Gardens Conservation Fund

http://www.swbg-conservationfund.org/grantInfo.htm

Conservation Education funding for : Nature Deficit Disorder: Programs designed to encourage youth to spend more time outdoors connecting with nature. This includes education programs for youth who live in biodiverse range countries to understand the value of nature and the mechanisms for sustainability.

May 2016

Outstanding Earth Science Teacher Program

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

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.

Ocean Guardian School Grant

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

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).

American Honda Foundation Grant


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

Outstanding Achievement in Primary and Secondary Education

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

Recognize educators who have gone beyond the traditional teaching methods by using insects as educational tools. One winner 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. 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.
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.

The CSTA Future Science Teacher Award
http://www.cascience.org/csta/programs_awards.asp

Recognition

The Margaret Nicholson Distinguished Service Award
http://www.cascience.org/csta/res_awards.asp

Recognition

Program of Mathematics Study & Active Professionalism Grants
http://www.nctm.org/Grants/

up to $24,000

The applicant must be a current Member of NCTM or must teach at a school with a current Pre-K–8 school membership. Financial support for teachers seeking to improve their understanding and appreciation of mathematics by completing course work in school mathematics content and pedagogy working toward an advanced degree, and taking an active professional approach toward teaching mathematics. For 2015–2016, a program grant with a maximum total of $24,000 will be awarded to a person currently teaching mathematics for at least 3 years, and teaching at least 50% of the time in classroom(s) at the grades Pre-K–6 level.

City College of San Francisco
10AM-2 PM - Lab equipment give away for middle and high schools. Lots of great equipment, but you need to follow the rules. Don't forget to read their website.

FREE lab supplies - BIO-LINK Depot
http://biolinkdepot.org/index.php/get-supplies/

FREE equipment

June 2016

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

$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.

Learning & Leadership Grants
http://www.neafoundation.org/pages/learning-leadership-grants/

$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.

Sol Hirsch Education Fund Grants
http://www.nwas.org/grants/solhirsch.php

$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.

Outstanding Science Teacher Educator of the Year
http://theaste.org/awards/

The purpose of these two awards (Level One: Ten or Fewer Years in Science Education, and Level Two: 10+ Years of Career) is to recognize the individual achievements and contributions of ASTE members in their first ten years of career (i.e., Level one) and those beyond ten years (i.e., Level Two). Each Award I recipient receives a plaque, a cash award from Carolina Biological Supply Company and a tribute in the awards issue of the Journal of Science Teacher Education.

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Free Bus for Summer Visits to Zoo  
[http://www.oaklandzoo.org/Wildlife_Assembly.php](http://www.oaklandzoo.org/Wildlife_Assembly.php)

Oakland Zoo

Looking for a way to get your group to the zoo, but transportation costs holding you back? FREE transportation to qualifying organizations to visit the zoo each summer when you book your group for a Wildlife Assembly education programs. The Wildlife Assembly program is a 45 minute up close encounter with education program animals. Meet some animals not seen on exhibit at the zoo, as an additional treat to a normal zoo visit. Program is offered Monday through Friday starting at 11:00 am and cost $8 per child and $7 per adult. This price also includes your admission into the zoo! You can learn more about this program at [http://www.oaklandzoo.org/Wildlife_Assembly.php](http://www.oaklandzoo.org/Wildlife_Assembly.php) . Please note: availability of free buses is limited, and are available on a first come, first served basis.

School Garden Grant  
[http://www.calfertilizer.org/Grant14.htm](http://www.calfertilizer.org/Grant14.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.

Champion Creatively Alive Children Grant  

Crayola

$2,500 and $100 in Crayola products

Form a collaborative team to plan innovative ways of infusing creativity throughout the school. Brainstorm a leadership program that will enrich the creative capabilities and confidence within the school community. Plan how and who will lead this collaborative effort. Complete the application. Submit application by June 22, 2015 (the principal must be a member of NAESP). Receive a gift — every Early Bird application submitted before midnight on Monday, June 8, 2015 will receive a Crayola product Classpack®.

Kids In Need Teacher Grants - Applications Available  

Kids In Need Foundation

$100-500

Multiple funders and grants. Similar applications. Get a packet of materials just for applying. You can submit a different project to each of the funders. Funds projects that make creative use of common teaching aids, approach curriculum from an imaginative angle, or tie nontraditional concepts together for the purpose of illustrating commonalities. Innovation and merit account for 40% of the evaluation.

Youth Creativity Grants  

LEGO Children's Fund

$500-$5000

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.

FREE lab supplies - BIO-LINK Depot  

City College of San Francisco

FREE equipment

10AM-2 PM - Lab equipment give away for middle and high schools. Lots of great equipment, but you need to follow the rules. Don't forget to read their website.

Grants For Grades 6 - 12  

Toshiba America Foundation

$5000 +

Toshiba America Foundation is currently accepting applications from teachers who are passionate about making science and mathematics more engaging for their students. Do you teach 6-12 science or math? Do you have a wish list of instructional equipment that will make learning more exciting for your students?

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.

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Printed: 2/1/2016
# Teacher Grants: Rolling or Continuous Deadlines

<table>
<thead>
<tr>
<th>Teacher wishlist</th>
<th>Adopt-A-Classroom Grants</th>
<th>Adopt-A-Classroom</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><a href="http://www.adoptaclassroom.org">http://www.adoptaclassroom.org</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Register your classroom online. This site pairs you with people who want to give money to your classroom to purchase supplies. Is not project based.</td>
<td></td>
</tr>
<tr>
<td>$10,000+</td>
<td>Amgen Foundation Grant</td>
<td>Amgen Foundation</td>
</tr>
<tr>
<td></td>
<td><a href="http://wwwext.amgen.com/citizenship/apply_for_grant.html">http://wwwext.amgen.com/citizenship/apply_for_grant.html</a></td>
<td></td>
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<tr>
<td></td>
<td>Science Education - The Foundation is committed to raising the value of science literacy on a national and local level. The areas given priority consideration within science education are: Teacher quality and professional development in math and science: Comprehensive programs that enhance the quality of math and science teachers entering the classroom, and support teachers with meaningful professional development opportunities that have a positive impact on student achievement Pivotal hands-on science experience: Support programs that provide students and teachers with opportunities for hands-on, inquiry-based learning experiences that significantly impact students’ excitement about science and scientific careers</td>
<td></td>
</tr>
<tr>
<td>Approximate value - $1000</td>
<td>Amy Chamberlain Scholarship Fund</td>
<td>Bay Area Wilderness Training</td>
</tr>
<tr>
<td></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></td>
<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>
<td>Varies</td>
<td>Friends &amp; Family Grants - BERKELEY Schools only</td>
<td>Berkeley Public Schools Fund</td>
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<tr>
<td></td>
<td><a href="https://schoolsfund-friendsandfamily.herokuapp.com/">https://schoolsfund-friendsandfamily.herokuapp.com/</a></td>
<td></td>
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<tr>
<td></td>
<td>This crowd-funding platform allows teachers to submit grant applications to fund new projects, materials, or equipment anytime throughout the year. Anyone can donate to a grant, and the site is searchable by teacher, school, and subject area. * Similar to DonorsChoose but with fewer barriers for funding and exclusively for Berkeley teachers * Teachers can submit brief applications for grants at anytime throughout the year * Administered by the Schools Fund, but projects are funded by community donors through crowdfunding * Share grants quickly and easily through email, Facebook, or Twitter * The Schools Fund annual Classroom Grants process has not change</td>
<td></td>
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<tr>
<td>discount bus rental rate</td>
<td>Black Tie Community Bus</td>
<td>Black Tie Transportation</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.blacktietrans.com/fleet-type/community/">http://www.blacktietrans.com/fleet-type/community/</a></td>
<td></td>
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<tr>
<td></td>
<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>
<td></td>
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<tr>
<td>$2500</td>
<td>California Casualty Academic Award</td>
<td>California Casualty</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.calcasacademicaward.com/">http://www.calcasacademicaward.com/</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Enter to win $2500 to cover your out of pocket expenses</td>
<td></td>
</tr>
<tr>
<td>50% and 100% field trip discounts</td>
<td>Free Field Trips</td>
<td>Children’s Creativity Museum</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.creativity.org/programs/school-fieldtrip-fee-waiver-request">www.creativity.org/programs/school-fieldtrip-fee-waiver-request</a></td>
<td></td>
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<tr>
<td></td>
<td>The Children’s Creativity Museum in San Francisco is committed to making their innovative programs accessible for all students. Reduced-rated and fee-waived programs for CA Title 1 and qualifying schools are now available for the 2015-16 school yea</td>
<td></td>
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Printed: 2/1/2016  Teacher Grants - Rolling Deadlines
<table>
<thead>
<tr>
<th><strong>Computer Hardware</strong></th>
<th><strong>Computers for Learning</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong><a href="http://computersforlearning.gov/">http://computersforlearning.gov/</a></strong></td>
<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>
</tr>
</tbody>
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<thead>
<tr>
<th><strong>Technology</strong></th>
<th><strong>Digital Wish</strong></th>
</tr>
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<tbody>
<tr>
<td><strong><a href="http://www.digitalwish.com/dw/digitalwish/home">http://www.digitalwish.com/dw/digitalwish/home</a></strong></td>
<td>Teachers to create a technology wish list. Online crowd sourcing provides funding</td>
</tr>
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<thead>
<tr>
<th><strong>$100-1000</strong></th>
<th><strong>DonorsChoose.org</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong><a href="http://www.donorschoose.org/teachers">http://www.donorschoose.org/teachers</a></strong></td>
<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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<thead>
<tr>
<th><strong>Discounted Bus</strong></th>
<th><strong>East Bay Regional Park District</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong><a href="http://www.ebparks.org/activities/educators/trips#parkex">http://www.ebparks.org/activities/educators/trips#parkex</a></strong></td>
<td>Discount buses ($110) for fieldtrips to East Bay Regional Parks. Schools must have at least 50% 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</td>
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<tr>
<th><strong>Up to $500</strong></th>
<th><strong>Environmental Volunteers</strong></th>
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<tbody>
<tr>
<td><strong><a href="http://www.sciencebynature.org/news/2">http://www.sciencebynature.org/news/2</a></strong></td>
<td>For San Francisco Bay Area schools - Science-based field trip destination in San Francisco Bay Area (for overnight field trips, only one day of the trip or one direction will be eligible for reimbursement). Applications are only online and reimbursement forms must be submitted in addition to invoices after the field trip has occurred. Eligible applicants are teachers and educators associated with the applying school, and the school must be at 70% FRPM or higher to qualify for the grant.</td>
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<tr>
<th><strong>Free Admission</strong></th>
<th><strong>Explorerium</strong></th>
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<tbody>
<tr>
<td><strong><a href="http://www.exploratorium.edu/visit/field-trips">http://www.exploratorium.edu/visit/field-trips</a></strong></td>
<td>Free admission to provided to all CA Title 1 schools.</td>
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<thead>
<tr>
<th><strong>$100 to $500</strong></th>
<th><strong>Field Trip Foundation</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong><a href="http://www.fieldtripgroup.org/for_teachers.html">http://www.fieldtripgroup.org/for_teachers.html</a></strong></td>
<td>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.</td>
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<tr>
<th><strong>Varies</strong></th>
<th><strong>GrantWrangler</strong></th>
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</thead>
<tbody>
<tr>
<td><strong><a href="http://www.grantwrangler.com/">http://www.grantwrangler.com/</a></strong></td>
<td>Check out this website for all types of grants for classrooms</td>
</tr>
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<tr>
<th><strong>Free Admission and Transportation</strong></th>
<th><strong>Hiller Aviation Museum</strong></th>
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<tbody>
<tr>
<td><strong><a href="http://www.hiller.org/mondays_at_the_museum.shtml">http://www.hiller.org/mondays_at_the_museum.shtml</a></strong></td>
<td>Visit the Hiller Aviation Museum with your students at no charge during Mondays at the Museum, with transportation reimbursement also available for qualified low-income schools (at least 40% of students qualified to receive free or reduced price meals). Explore the science of flight with over 50 different historic aircraft, interactive exhibits, and engaging NGSS-aligned hands-on programs for students Grades K-12.</td>
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<tr>
<th><strong>$1000-$5000</strong></th>
<th><strong>Kinder Morgan Foundation</strong></th>
</tr>
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<tbody>
<tr>
<td><strong><a href="http://www.kindermorgan.com/community/km%E5%9F%BA%E7%A4%8E_guidelines.cfm">http://www.kindermorgan.com/community/km基礎_guidelines.cfm</a></strong></td>
<td>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</td>
</tr>
</tbody>
</table>

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Teacher Grants - Rolling Deadlines
**Macy’s District Grants and Event Sponsorships**

My Macy’s District Grants and Event Sponsorships

http://www.federated-fds.com/community/grant-information/district-grants/instructions.aspx

Focus areas are arts and culture, education, the environment, HIV/AIDS and women’s issues. Program and event support.

**Bus Transportation Scholarship - Oakland & Richmond**

Oakland Museum of California

http://museumca.org/school-visits

A limited number of scholarships are available and are awarded based on these criteria:

- School must be in Oakland Unified School District (includes charter schools) or a Richmond public school.
- At least 70% of students at the school must qualify for the free or reduced lunch program.
- One scholarship per teacher each school year.
- Scholarships are awarded to classrooms on a first-come, first-served basis.
- Teachers will contact the bus company directly to book the transportation, using the code as authorization provided by the museum. The Museum will be billed for the bus.

**Program Scholarship for Oakland**

Oakland Museum of California

http://museumca.org/school-visits

A limited number of scholarships are available and are awarded based on these criteria:

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

**Discounted admission to Oakland Museum**

**Classroom Grant**

Pets in the Classroom

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

Pets in the Classroom grants are offered to Pre-K through 8th grade classes. 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 several grant types for purchase of animals or to cover food and material costs.

**Classroom Grants**

Philanthropic Ventures Foundation

http://www.venturesfoundation.org/programs/teacher-grants/

A variety of classrooms grants generally become available at the beginning of the school year. The application is one simple faxed in page. You received notification within days. Funding runs out quickly, so act quickly. Check back often as sometimes new funding sources become available. Grants for field trips, science materials, special ed., after school programs, and more

**Get to the Coast discount**

Point Bonita YMCA

https://docs.google.com/forms/d/1JJJ-DSgYDORjbs5pYLWRxbCzeOZ4Zu6xiklzLKwu7B0/viewform

Funding from the Coastal Conservancy to help subsidize a three day residential OE program for middle and high school students, Programs:

- Build community through safe, meaningful and fun learning experiences
- Develop students’ knowledge of the natural world, inspire inquiry and wonder while meeting state standards
- Empower students to be environmental stewards & make healthy living choices

**Mini Grants - Waste Reduction**

StopWaste.org

http://www.stopwaste.org/recycling/business/general-mini-grant-program

StopWaste.Org looks for innovative projects which will increase individual and community involvement in source reduction efforts, decrease the amount of waste generated and sent to the County’s landfills, and encourage the development, marketing and use of recycled products.

**Grants for Teachers**

Teacher Planet

http://grants4teachers.com/

Database of education grants of all types and amounts.

**Environmental Education Grants**

The Cedar Tree Foundation

http://www.cedartreefound.org/

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

Printed: 2/1/2016

Teacher Grants - Rolling Deadlines
The Cedar Tree Foundation makes grants for environmental education, environmental health, and sustainable agriculture. Particular consideration is given to proposals demonstrating strong elements of environmental justice and/or conservation. The foundation does not accept unsolicited proposals; however, it does welcome letters of inquiry and responds to those it might like to pursue further.

12-20 trees plus planting and more

The Fruit Tree Planting Foundation-Fruit Tree 101

http://www.ftpf.org/fruittree101.htm

This program of The Fruit Tree Planting Foundation brings fruit tree orchards to schoolyards, so students can make a positive environmental impact at their school, while creating a source of tasty snacks for decades to come. Orchard donations involve, on average, a 12-20 tree minimum (we do not currently offer single trees) to public or nonprofit schools. The trees, materials, orchard installation design work, and onsite environmental curriculum with students are all donated, free of charge for the benefit of the school and its students.

Healthy Environments grant

http://kresge.org/programs/health/healthy-environments

The Kresge Foundation

Low-income communities often are located in areas with higher exposure to environmental hazards due to the condition and proximity of their homes, schools and workplaces to polluting industries and aging urban centers. These multiple exposures range from air pollution and chemical contaminants to the toxins associated with substandard housing and the additives in unhealthy foods. The healthy food initiative invests in efforts to improve food-system policies and practices, especially those that provide better access to fruits, vegetables and other heathful foods and that reduce the emphasis on products without nutritional benefits.

Toshiba America Foundation

http://www.toshiba.com/taf/612.jsp

Wanted: Classroom Innovators! Toshiba America Foundation is accepting applications from teachers who are passionate about making science and mathematics more engaging for their students. Do you have a wish list of instructional equipment that will make learning more exciting for your students?

$5000 of less

Mini-Grants For Grades 6 - 12

http://www.toshiba.com/taf/612.jsp

US Fish & Wildlife Services

http://www.fws.gov/cno/conservation/schoolyard.cfm

The Schoolyard Habitat Program helps teachers and students create wildlife habitat at their own schools. Typical projects include: wetlands, meadows, forests and variations based on specific eco-regions. Many projects are planned through multiple phases and change over time as children from various classes build upon the existing work of past students. They work with your school to provide: technical assistance and project guidance, teacher training, develop written materials. Goal is to provide technical and organizational assistance to school. For more information Contact: Carolyn Kolstad, U.S. Fish and Wildlife Service Pacific Southwest Region - Schoolyard Habitat Program, 11641 Blocker Drive, Suite 110, Auburn, CA 95603 - Office: (530) 889-2308 Cell: (916) 201-3051 Email: Carolyn_kolstad@fws.gov

Wells Fargo Foundation

https://www.wellsfargo.com/about/charitable/ca_guidelines

Rolling Deadline. San Francisco Bay Region accepts grant proposals from January through October 31st. Supports educational programs promoting academic achievement by low- to moderate-income students in the key areas of: Math and science; Literacy; History of the American West

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

Printed: 2/1/2016  Teacher Grants - Rolling Deadlines
Temporary & New Science Exhibits Around the Bay Area

Bay Area Discovery Museum

Children's China: Celebrating Culture, Character and Confucius

http://www.baykidsmuseum.org/visit-us/exhibitions/childrens-china/

(February 16 - May 8) Take a trip to China - no passport required! Participate in a traditional tea ceremony, learn Chinese character writing, care for pandas, partake in dragon parades and more!

Bay Model Visitor Center

Traces – Art Exhibition

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

(January 12–March 5, 2016) Some traces pass quickly; others linger, change, disappear. San Francisco photographer Elena Sheehan will be showing abstract images of rocks and water made in Greece and in the San Francisco Bay Area. All the work is printed with archival pigment inks and many images are on canvas and one of a kind pieces. Sheehan has been active in the Bay Area photographic community for many years. She taught at San Francisco City College and at the University of California Extension Division. Her work has been exhibited and published in Germany, France, Belgium, Italy, and Greece, as well as in Korea, Mexico, and the United States and is in many public and private collections. www.elenasheehan.com

California Academy of Sciences

Planetarium: Ingredients of Life

http://www.calacademy.org/educators/field-trips

Opens March 14, 2016 - Exploring the smallest objects in our interplanetary neighborhood—asteroids, comets, and dwarf planets—helps us piece together the history of the Solar System. We have learned that our planet inhabits a special place in the Universe. Impacts on Earth may have led to the demise of the dinosaurs—opening up opportunities for our mammalian ancestors—but they may also have helped create the conditions for life billions of years ago. And the changing orbits of our planets likely cleared out many of the objects that would have spelled disaster for the development of complex life on our planet. Although future asteroid impacts could alter life’s story we know that the our planetary system is relatively clear of such threats, and we are developing the means to identify—and contend with—the threats that do exist.

Chabot Space and Science Center

Science Education Resource Fair - March 19

https://ftftchabot2016.eventbrite.com

CRS and Chabot Space and Science Center have teamed up to present a Science Education Resource Fair. Free for Teachers. Arrive at 9:00 to learn about all Chabot has to offer teachers, enjoy a cup of coffee and some breakfast nibbles and wander the two dozen tables of science education programs. You'll have the museum to yourself until it opens to the public at 10:00. The resource fair will continue until 11:00 when we will head to the theater for a science assembly and a chance to honor the 2016 CRS Science Super Stars.

Children's Creativity Museum

Games: Serious Fun

http://creativity.org/games/

(Opens January 30, 2016) The Children’s Creativity Museum in San Francisco is serious about play, and beginning January 30, 2016, all ages are invited to have some serious fun in their newest exhibit: GAMES. Games help children understand how to follow and negotiate rules, set goals, compete with good sportsmanship, and collaborate with team members. Research in child development provides evidence that games promote key social and emotional skills that help children grow up to be healthy and successful adults. This game-changing exhibition is designed to help children express their creativity and build their creative confidence through a variety of activities and open-ended play. Play skeeball with a robot by writing code to teach it how to throw a ball; Challenge your friends to a variety of collaborative board games; and more!
Children's Discovery Museum of San Jose

**Healthyville**

https://www.cdm.org/visit/exhibits/west-wing-changing-exhibits/

The vibrant community of Healthyville® is home to residents of all ages who try every day to live active, healthy lifestyles. Children and adults will have hands-on opportunities to explore nutrition and fitness in ways that help them understand their bodies, understand the importance of making healthy choices, and apply these concepts in everyday situations.

DiscoverE

**National Engineers Week - February 21-27, 2016**

http://www.discovere.org/our-programs/engineers-week

Celebrate how engineers make a difference in our world. Increase public dialogue about the need for engineers. Bring engineering to life for kids, educators, and parents. More than a week-long event, Engineers Week is a year-round commitment to making a difference.

Exploratorium

**TRBQ: The Really Big Questions**

http://www.exploratorium.edu/visit/west-gallery/trbq

(June 19, 2015–June 24, 2016) A New Exhibition About Life's Most Challenging Queries. The Really Big Questions is a collection of exhibits and activities that let you explore three complex questions that have challenged scientists, philosophers, and artists for centuries: What is romantic love? Why does music move us? Why do we tell stories? These questions have inspired countless theories, songs, paintings, and poems. They keep us up at night because they spring from the core of what it means to be human.

Junior Center of Art and Science

**African American Inventors**

http://www.juniorcenter.org/workshops.html

(February 2, 2016- April 22, 2016) This exhibit will highlight a selection of the many contributions that African-American inventors and scientists have made to American society. The featured inventors are credited with the creation of items we see around us every day such as the traffic light, the elevator, the fountain pen, and much more. Historical and contemporary inventors will be represented.

Lawrence Hall of Science

**3-D Theater: Pandas: The Journey Home**

http://www.lawrencehallofscience.org/visit/exhibits/design_build_test/national_geographic_3d_theater

(through June 12) 40-minute film. Meet the pandas at the Wolong Panda Center in China as they get ready for their new lives in various parts of the world, and learn about their fascinating habits and personalities. Turns out pandas are as much fun as they are cute! Experience, too, the dedication of the scientists who work tirelessly on behalf of this amazing animal. And follow one panda in particular, Tau Tau, as he is released into the bamboo forest to begin his adventure living wild.

Oakland Museum of California

**UNEARTHED: Found + Made**

http://museumca.org/exhibit/unearthed-found-made

(December 12, 2015–April 24, 2016) In a unique mash-up, UNEARTHED: Found + Made intermixes work by a contemporary artist with the creative practice of amateur local clubs. Oakland-born, Los Angeles-based artist Jedediah Caesar imitates geological processes in making his sculptures, sometimes encasing found objects from the urban environment in clear or colored resin. The California Suiseki Society and the San Francisco Suiseki Kai practice a Japanese tradition of carefully collecting, appreciating, and displaying stones on carved wooden platforms. Placing Caesar’s sculpture alongside suiseki by members of these clubs highlights a similarity in process they share: each collects loose material from the landscape, reworking and presenting it for shared appreciation.

**Bees: Tiny Insect, Big Impact**

http://museumca.org/exhibit/bees
(Closes July 24, 2016) - Take a look at the wildly diverse and intricate world of one of the most important creatures to human agriculture and the natural environment. Through family-friendly experiences, hands-on activities, and media, Bees: Tiny Insect, Big Impact touches on topics of honeybees and Bay Area beekeeping, the diversity of California native bee species, citizen science projects, and the similarities between bees and humans. Discover real bee specimens under a microscope, crawl through a human-sized beehive, and try on a beekeeper suit. The exhibition continues outside of the Gallery: get involved with citizen science organizations, check out bee hotels installed in the OMCA gardens, and take home guides on planting a bee-friendly garden and building bee hotels for your own garden. In an immersive gallery environment, explore the causes of bee population decline, learn about the significance of bees to California's economy and ecosystems, and discover how simple but powerful actions by Californians can help bees to survive in a changing world. Docent-led tour for K-6 on bees and other pollinators are available now.

Randall Museum
San Francisco

Randall Museum Temporary Relocation
http://www.randallmuseum.org/
The Randall Museum is now closed. On July 1 the “Randall Museum” reopened at Mission Art Center at 745 Treat Avenue (map), including the live animal exhibit. Come visit all of your favorite animals Tuesday-Saturday 10am-5pm. Join us for new Saturday family drop-in science and art classes every week! The renovated Randall Museum will re-open sometime in 2016.

SF Botanical Garden & Strybing Arboretum
San Francisco

Art Exhibit: Chasing Color
http://www.sfbotanicalgarden.org/library/art-exhibit.html
(January - March 2016) Artist Erika Perloff will present Chasing Color: Painting California's Native Flora through the Seasons in the Helen Crocker Russell Library starting in January 2016. You can follow her progress as she paints the beauty of California's plants on her blog https://erikaperloff.wordpress.com/

The Tech Museum of Innovation
San Jose

Innovations in Health Care
http://www.thetech.org/plan-your-visit/galleries/innovations-health-care
New Exhibit ---- This is the first exhibit at The Tech that explores advances in health care technology while explicitly detailing the innovation process. Technology saving lives, created by people who "found their why," are the focal point of the experience. Many innovations came from unlikely sources of inspiration or are solutions created by inventors outside of relevant fields. Visitors to Innovations in Health Care will:
* Explore how a dog's sense of smell might help detect cancer (and test their own sniffing powers.)
* Consider ways to help doctors remotely diagnose medical problems without expensive equipment.
* Brainstorm new ways to filter water in developing nations.
* Experiment with different materials to keep infants warm.
* Learn how to design and build within constraints, an important key to innovation.
* Develop pre-surgery checklists that make procedures safer.
* Detect differences between standard vaccines and new nanopatch technology.
* Contemplate how 3D printing may change health care by creating skin and organs.

University of California Berkeley
Berkeley

Cal Day Open House - April 16, 2016
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.
Inside this CRS Science Resource Guide

- CRS Spring Field Trip for Teachers — a Science Resource Fair
- Start the CRS Science Super Star Challenge
- Invite CRS to a Staff Meeting
- NGSS Resources
- Professional Development Calendar
- Registration Deadlines
- Special Science Exhibits
- Grant Deadlines
- And much more……..

The May 2016 Resource Guide will only be sent out via email. Make sure we have your current, working email so that you don’t miss out.

Save The Date!

CRS Field Trip for Teachers
A Science Education Resource Fair
at Chabot Space & Science Center
Saturday, March 19, 2016
9:00-noon
RSVP at
https://ftftchabot2016.eventbrite.com