What Does Excellent Elementary Science Look Like?

Ask our 2016 Science Super Star honorees! These 101 teachers brought hands-on lessons, reading and writing about science, collecting and analyzing data, science experts, and much more to their students this year. The Science Super Star program celebrates the accomplishments of educators who successfully provide their students with creative, engaging, and high-quality science learning experiences throughout the year. These educators serve as inspiring role models as California schools transition to new science standards. You can find more information about the program at http://www.crscience.org/educators/SSSprogram

Thanks to generous contributions from partner organizations and publishers, we will be delivering a wide range of recognition prizes to these teachers and schools. We will give every student in every classroom a science-themed book of their very own – that's over 3,000 students this year! Teachers will receive classroom prizes ranging from book sets and science teaching materials, to field trips, museum or zoo admissions, and more. Schools that earned the coveted “whole school” recognition and some that came close will receive science programs from CRS partners such as Rock Steady Juggling, East Bay Regional Park, Aquarium of the Bay, the California Academy of Sciences, or visits from scientist teams from Clorox or Bayer. (see our donor list on page 3)

In recognition of the 5th year of the CRS Science Super Star Challenge, we hosted a celebration luncheon at Chabot Space and Science Center on March 19. Teacher honorees were treated to catered “Lunch with a Scientist,” featuring several of our amazing BASIS volunteers. They shared lively discussions about science in our lives and classrooms.

In addition, author Laurie Wallmark (whose newest book is Ada Byron Lovelace and the Thinking Machine) was our featured speaker. Via teleconference, she shared her experience as a woman in STEM who has spent her career encouraging STEM education for all.

We are very proud of all of this year’s Science Super Stars and look forward to visiting all of their classrooms before the end of the school year. Congrats to these 2015-16 Science Super Star Honorees!

2016 Whole School Honorees:

Two Oakland schools, Chabot Elementary and the International Community School, both had 100% participation by their classroom teachers to become whole school honorees. Our official threshold for “whole school” participation is 80% or more. These two schools went above and beyond in their pursuit for excellence in elementary science education.

International Community School
Monica Guzman, Principal; Liz Woodward, Raquel Rodriguez Jones, Nicol LaCava, Pamela Long, Timothy Douglas, Paula DeLoach, Alejandro Estrada, Carolina Equihua-Cerda, Carlos Navarro, Micaela Morse, Lindsay Daseler, Mouhamadou Seck, Cynthia Lopez, Jill Guerra

Chabot Elementary
Jessica Cannon, Principal, Juli Ward, Leslie Rychel, Caroline Aszklar, Phoebe Diamond, Doshia Battiest, Laura Shield, Miranda Carrow, Joon Yeider, James Harrison, Pearl Mizrahi, Niesha Johnson, Jennifer Brackett, Anna Forward, Meghan Shaughnessy, Danny Nagatani, Sally Barry, Deborah Flanagan, Anusheh Warda, Brennan Agajan, Darlene Perdisatt, Leslie Olrich, Amy Moscato, Kyle Wong (continued on page 5)
Field Trip for Teachers: Bringing Community Together

We love making connections to enhance science teaching and learning. Connection sparks were flying at our Spring Field Trip for Teachers on March 19 at Chabot Space and Science Center.

Teachers and science organizations from around the Bay gathered for our 2nd annual Science Resource Fair. As they perused lesson plans and field trip offerings, teachers connected with museum and outdoor educators. Participating organizations connected with one another, exploring new partnerships. Educators of all backgrounds discovered connections between life, physical and earth sciences, and across the curriculum.

Many lucky teachers also connected with great raffle prizes – including field trips – donated by Chabot and others!

Thank you to our co-host and partner, Chabot Space and Science Center for opening their doors and sharing their programs with the community. Let's keep making those connections!

Exploring Science Collaboration at Pinole Elementary

What do marble ramps, ladybugs, and phases of the moon have in common? These are just a few of the science topics we’ve explored with K-6 teachers this school year as part of our ESCAPE (Exploring Science Collaboration at Pinole-family Elementary) professional development program.

CRS, in partnership with the Lawrence Hall of Science and the UC Berkeley Natural History Museum, has provided support, BASIS presentations, and a series of workshops over the past two years, serving about 115 West Contra Costa Unified teachers. They have been eager to delve into interactive learning experiences on key science concepts.

In addition, about 30 teachers chose to take a deeper dive into science teaching and learning by participating in a week-long summer intensive workshop in June 2015 which included engaging in field research alongside practicing UC Berkeley scientists. Plans for the 2016 Summer Intensive session are taking shape now.

The chance to dig into science investigations, and to learn together with scientists, has had a significant impact on the ESCAPE teachers.

One teacher told us, “I avoided science all through school, from high school through college. I always felt intimidated. After this training I feel so much more empowered to be a scientist! Thank you so much.”

Another teacher described the Summer Intensive as “the best training I have been to in ages. It was interesting, engaging, and useful. I was never bored the whole week. I loved the interaction with the grad students. Their enthusiasm was contagious which was great to cure the burnt out feeling I had by the end of the school year. I feel like I am going to face my summer travels with new eyes and I feel more energized and prepared to plan different experiences for my students in all subjects for next year.”

To get a glimpse at all the fun professional learning teachers have had dissecting owl pellets, figuring out the reasons for the seasons, and investigating the behavior of isopods, visit: http://tinyurl.com/jdsclfh

As a result of this professional development program, hundreds of West Contra Costa elementary students have had the chance to investigate new topics, to explore schoolyard ecology, and to deepen their understanding through writing, reading, discussing and mathematical thinking all connected to hands-on learning experiences.

UC Astronomer Bryan Mendez discusses the importance of dispelling mis-perceptions in order to build clear understanding in space science
Thank you to our 2016 Partners & Supporters

Science Super Star In-Kind and Sponsorships:

- 4Terra Investments
- Aquarium of the Bay
- Bayer
- California Academy of Sciences
- Clorox
- East Bay Regional Parks District
- GoldieBlox
- Kids for the Bay
- LaLime’s
- Marine Science Institute
- Oakland Zoo
- Resource Area for Teachers (RAFT)
- Rock Steady Juggling
- Stop Waste

Publisher Donations for Science Super Stars:

- ABDO Publishing Company
- Barefoot Books
- Bearport Publishing
- Bellwether Media
- Candlewick Press
- Charlesbridge Publishing
- Chronicle Books
- Crabtree Publishing
- Dawn Publications
- DK Publishing
- Flowerpot Press
- Fulcrum Publishing
- Graphic Arts Books
- Houghton Mifflin Harcourt
- Lerner Books
- Macmillan Kids
- National Geographic & Cengage Learning
- Nomad Press
- Peachtree Publishers
- Random House Children’s Books
- Second Story Press
- Simon & Schuster
- Sleeping Bear Press
- Tundra Books
- The Creative Company

Thank you to our:

- 1,700+ teacher members
- 550+ scientist and engineer BASIS volunteers
- 100+ science education partners

Foundations:

- S. D. Bechtel, Jr. Foundation
- Clorox Company Foundation
- Joseph and Vera Long Foundation
- RGK Foundation
- The Braitmayer Foundation
- Thomas J. Long Foundation
- Bayer Health Care
- Dean Witter Foundation
- Walter & Elise Haas Fund
- Cisco Systems Foundation
- East Bay Community Foundation
- Irene S. Scully Foundation
- SanDisk Foundation
- UC Berkeley Chancellor’s Community Partnership Fund
- Berkeley Public Schools Fund
- Callison Foundation
- Clif Bar Family Foundation
- Joseph and Mercedes McMicking Foundation
- Goggio Family Foundation
- Bernard E. and Alba Witkin Charitable Foundation
- In Dulci Jubilo, Inc.
- Red Oak Opportunity Fund
- Lawrence Berkeley Lab Retirees Association
- Seyfarth Shaw Charitable Foundation
- Berkeley Association of Realtors

Be A Scientist mentor guides a student through her own science experiment

A BASIS Volunteer teaches Kindergarteners about germs

Thank you to our many business donors, sponsors, and partners!
For the full list, visit:
www.crscience.org/about/funderspartners
Family Science Nights are a vital way for the entire community to support students to do more science. These nights help teachers, students, and family members to see science learning as important and attainable for everyone.

CRS regularly assists schools with Family Science Nights and Science Fairs at local elementary schools. These science experiences outside of the classroom are fantastic opportunities to expose and inspire students to do more science. CRS organized over 50 scientist volunteers from UC Berkeley to provide Family Science Night support, giving scientists opportunities to exhibit some of their research and demonstrations. Some of the activities included wind turbines, tower engineering, parachutes, and even a human brain! For the Science Fairs, CRS organized volunteers to judge science activities, sharing their expertise and advice with younger scientists. Students and their families were inspired to see such excellent science role models.

CRS thrives on linking students, teachers, families, and scientists together. Interested in planning a family science night? Check out our web page for information and resources: [http://tinyurl.com/h2wwege](http://tinyurl.com/h2wwege)

Help Us Reach Our Spring Giving Goal of $10,000

To make a donation, visit our giving website [www.crscience.org/events/springgiving](http://www.crscience.org/events/springgiving)

Or mail a check and the form below to:

Community Resources for Science
1611 San Pablo Ave. Suite 10 B
Berkeley, CA 94702

Another Way to Help as You Shop!
1. Go to [www.smile.amazon.com](http://www.smile.amazon.com)
2. Login with your Amazon credentials
3. Choose CRS as your beneficiary
4. CRS will receive a portion of your Amazon purchases with no added cost to you.

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Name: ___________________________________________________________________________
Address: _________________________________________________________________________
City: _______________________________________  State: ____________  Zip: _______________
Phone: _____________________________ Email: _____________________________________

I/We would like to be acknowledged as follows: ___________________________________________

To honor a specific teacher, please tell us his/her name, school, and address: __________________

_________________________________________________________________________________
CRS celebrated another fantastic year of our Bay Area Scientists in Schools (BASIS) and Be A Scientist programs with the annual CRS Volunteer Appreciation Party!

This year’s party was held at the Oakland Museum of California during their April 22nd Friday Nights @ OMCA event. Over 120 of our wonderful volunteers mixed, mingled, and enjoyed fun CRS-themed activities with exclusive access to the OMCA Cafe.

Morgan shared the impressive volunteer impact statistics at the annual appreciation event

In the address to volunteers, BASIS Program Manager Morgan Seag reflected on the year, sharing heartfelt thanks and meaningful quotes from teachers. Professor Robert Bergman shared about the origins of CRS and the importance of STEM education.

Meanwhile volunteers were invited to share their reflections on the year, noting that they love seeing the excitement on kid’s faces and that they were excited for future scientists.

CRS was thrilled to be able to offer our volunteers access to the exciting offerings of Friday Nights @ OMCA, including its special Earth Day activities. Volunteers enjoyed a DJ music, a live dissection of an albatross bolus, short films from the San Francisco International Ocean Film Festival, bites and beverages, access to the brand new groundbreaking exhibit, Altered State: Marijuana in California, and more! Thank you to our generous donors, including the Oakland Museum of California, for helping to support and sponsor this event.

“"My students and I loved the lesson. We do a lot of hands on science, but having experts come in really reinforces our work and builds up our commitment to doing science.”

--3rd Grade Teacher
CRS Team

Staff
Teresa Barnett, Executive Director
Elise Zolczynski, Manager, Volunteer Coordination
Morgan Seag, Manager, Volunteer Recruitment & Education Outreach
Tyler Chuck, Communications Manager

Program Support
Corinn Brown, Teacher Services Manager
Traci Grzymala, Project Coordinator
Michelle Fabros, Project Coordinator
Meredith Triplet, BASIS Campus Coordinator

Board Members
Phoebe White, President
Susan Kattchee, Vice President
Maureen Dunne, Secretary
Justin Curley, Treasurer
Robert Bergman
Anne Jennings
Kristen Ratan
Rodney Turner
Diana Velez

“It was wonderful to work one on one with students, and I felt that I was able to understand what their individual strengths, weaknesses, and scientific misconceptions were, so that I could work with them to help make them strong researchers”

--Be A Scientist Volunteer

Mentor advises in the “Be A Scientist” program, now at King and Willard in Berkeley
Program Deadlines

May 2016

5/14/2016 Applications open for 2016-17 Field Trip Grants
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;TK
http://www.evols.org/transportation-fund-2016
Environmental Volunteers

5/15/2016 Project Astro Applications Available Now
Grades: 3rd;4th;5th;6th;7th;8th
http://www.astrosociety.org/education/k12-educators/sf-bay-area-project-astro/
Astronomical Society of the Pacific

5/15/2016 Now Registering for 2016-17 Programs
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.calacademy.org/educators/field-trips
California Academy of Sciences

5/15/2016 Now Registering for 2016-17 Programs
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.exploratorium.edu/visit/field-trips
Exploratorium

5/15/2016 Reservations for 2016-17 field trips open
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Hiller Aviation Museum

5/15/2016 Summer Fellowship Program - Apply ASAP
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.iisme.org/
IISME - Industry Initiatives for Science and Math Education

5/15/2016 Registration Open for 2016-17 school year
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
http://kidsforthebay.org/programs/
Kids for the Bay

5/15/2016 Teacher Research Academies - reg open
Grades: 6th;7th;8th;9th;10th;11th;12th
https://education.llnl.gov/programs/teacher-research-academies/summer-schedule
Lawrence Livermore National Laboratory

5/15/2016 Now Registering for 2016-17 Programs
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.sfbaymsi.org/school.html
Marine Science Institute

5/15/2016 Now Registering for 2016-17 Programs
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Monterey Bay Aquarium

5/15/2016 Sign up for NCSE’s Scientists in the Classroom program - Middle & High Sch
Grades: 6th;7th;8th;9th;10th;11th;12th
https://www.surveymonkey.com/r/TeachSp16
National Center for Science Education

5/15/2016 Reservations for 2016-17 School year are open
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.naturebridge.org/school-group-field-science-golden-gate
NatureBridge at Golden Gate

5/16/2016 Fall 2016 Program Application Opens
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.slideranch.org
Slide Ranch

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

Printed 5/10/2016
5/28/2016 Ocean Ambassadors The Marine Mammal Center
Grades: 6th;7th;8th
http://www.marinemammalcenter.org/education/school-aged-programs-tours/ocean-ambassadors/

June 2016

6/1/2016 Registration begins for 2016-17 School Year Lake Merritt Boating Center
Grades: 4th;5th
www.sailoakland.com/sailingintoscience

6/10/20165/28/2016
6/27/2016 Reg. Deadline - Summer 2015 #2- (July 11-Aug 21) - Online PD American Museum of Natural History
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://learn.amnh.org/

6/30/2016 Fundamentals of Inquiry Early Bird reg. Exploratorium
Grades: K;1st;2nd;3rd;4th;5th
http://www.exploratorium.edu/education/institute-for-inquiry/workshops/fundamentals

August 2016

8/1/2016 Lottery Deadline for Fall Fieldtrips East Bay Regional Park District
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.ebparks.org/activities/educators/trips

8/1/2016 Field Trip Reservations Open- fills fast - date approx. Point Reyes National Seashore
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.nps.gov/pore/forteachers/index.htm

8/15/2016 Registering for 2016-17 Programs Opens Lindsay Wildlife Experience
Grades: K;1st;2nd;3rd;4th;5th
http://lindsaywildlife.org/teachers-and-schools/

8/22/2016 Project Astro Application Deadline Astronomical Society of the Pacific
Grades: 5th;6th;7th;8th;9th
http://www.astrosociety.org/education/k12-educators/sf-bay-area-project-astro/

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Printed 5/10/2016
Program Deadlines
Teacher Grants: Specific Deadlines

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

May 2016

5/21/2016
FREE lab supplies - BIO-LINK Depot
http://biolinkdepot.org/index.php/get-supplies/
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.

City College of San Francisco

June 2016

6/1/2016
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.

The NEA Foundation

6/1/2016
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.

The NEA Foundation

6/1/2016
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.

National Weather Association

6/1/2016
Outstanding Science Teacher Educator of the Year
http://theaste.org/awards/
Association for Science Teacher Education

Outstanding Science Teacher Educator of the Year

6/1/2016
Free Bus for Summer Visits to Zoo
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 . Please note: availability of free buses is limited, and are available on a first come, first served basis.

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

Printed: 5/10/2016
California Fertilizer Foundation

**School Garden Grant**

http://www.calfertilizer.org/Grant14.htm

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

Northrop Grumman Foundation

**Fab School Labs**

http://www.fabschoollabs.com/

Five grants of up to $100,000 available to public middle schools for a fabulous school lab makeover. So if your students are using equipment from their parents' day and your Bunsen burners could use a boost, then a science, technology, or engineering lab or classroom makeover might be just what your school needs. Tell us your vision for a dream lab makeover, share a video about your current classroom, and if you are one of up to 25 finalists, invite your local community to vote for your video to help you win. Be creative and get ready to make your dream STEM lab a reality.

Application Window: May 1 - June 17, 2016

Crayola

**Champion Creatively Alive Children Grant**

http://www.crayola.com/for-educators/ccac-landing/grant-program.aspx

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®.

July 2016

**The Bauder Endowment for the Support of Physics Teaching**

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

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

**Kids In Need Teacher Grants - Applications Available**

http://www.kinf.org/grants/

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**

http://bit.ly/1v5rDYq

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.

City College of San Francisco

**FREE lab supplies - BIO-LINK Depot**

http://biolinkdepot.org/index.php/get-supplies/

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.

August 2016

**Grants For Grades 6 - 12**

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

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**


Supports youth education with a specific focus on the STEM (science, technology, engineering and mathematics) subjects in addition to the environment.
More boards and free science equipment $3000

$700

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

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

9/1/2016

Field Trip Grants -Applications OPEN
https://corporate.target.com/corporate-responsibility/grants

Target

$700

May be used to fund trips ranging from visits to art museums and environmental projects to cultural events and civic experiences. Apply on-line. The Earlier you apply in the fall the better

8/12/2016

Melinda Gray Ardia Environmental Foundation Grant
http://www.mgae.org/index.html

Melinda Gray Ardia Environmental Foundation, Ltd.

$1500

Supports curricula that empowers and encourages students to become involved in solving environmental and social problems. Eligible applicants are K-12 educators that wish to develop environmental curricula that integrates field activities and classroom teaching.

September 2016

9/1/2016

Farm to School Grants
http://www.fns.usda.gov/farmtoschool/farm-school-grant-program

United States Department of Agriculture

$15,000 to $100,000

The purpose of the USDA Farm to School Grant Program is to assist eligible entities in implementing farm to school programs that improve access to local foods in eligible schools. On an annual basis, USDA awards up to $5 million in competitive grants for training, supporting operations, planning, purchasing equipment, developing school gardens, developing partnerships, and implementing farm to school programs. Planning awards range from $20,000 - $45,000; implementation and support service awards range from $65,000 - $100,000; training awards range from $15,000 - $50,000. Matching funds of 25% are required for all four grant types.

9/2/2016

Science Project Support Application Opens **date approx.
http://www.outreach-foundation.org/

Synopsys Outreach Foundation

In order to assist as many teachers as as many schools as possible the foundation is limiting requests for science project poster boards to a maximum of 100 boards per teacher and a maximum of 300 boards per school.

• Each teacher may request: up to 100 science project poster boards (maximum 300 per school), up to 300 round, adhesive "I Did It" stickers, up to 5 "science-o-rama" event posters

9/9/2016

Alcatraz School Access Program
http://www.nps.gov/alca/planyourvisit/school-access-program.htm

Alcatraz Island

FREE field trip to Alcatraz

Schools must submit applications by the first Friday after Labor Day. Because of the high demand for this program, classes meeting the program criteria will be selected at random. Schools selected the previous year may not be eligible the following year depending on availability. Selected groups will be directed to Alcatraz Cruises to receive tickets. Public Schools where at least 60% of students receive free and reduced lunches or Private Schools where 60% of students receive scholarships are eligible to receive free tickets for visits to Alcatraz between January 3 and March 15. November 1 through 15, and December 1 through 15. In addition, classes must have a specific educational reason for wanting to visit Alcatraz, this can be based either on a particular Alcatraz story (for example American Indian youth learning about the Indians of All Tribes occupation) or a specific state mandated curriculum (Civil War, Crime and Punishment, etc.) for which Alcatraz offers an opportunity to meet. Groups can not be more than 45 people and must include one adult leader (over 21 years of age) for every seven youths below the age of 18. Youths must be accompanied by an adult chaperone at all times on the island. All island visits must begin no later than 11:00 am ferry departing Pier 31½. Priority is given to schools who have not previously participated in this program. To apply send the following information to: Alcatraz, Fort Mason Bldg 201, San Francisco, CA 94123. ATTN: School Access Program. Or use web form on url above.

9/17/2016

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.

9/30/2016

Field Trip Grants - Deadline to apply
https://corporate.target.com/corporate-responsibility/grants

Target

$700

May be used to fund trips ranging from visits to art museums and environmental projects to cultural events and civic experiences. Apply on-line. The Earlier you apply in the fall the better

9/30/2016

GreenWorks! Grants for Registered PLT GreenSchools!
http://www.plt.org/applyforagrant

Project Learning Tree

$3000

• Applicants must meet all the parameters for traditional GreenWorks! grant funding
• Applicants must be a school (public or private)
• Applicants must be registered on the PLT GreenSchools! website (It’s free!)
• Applicants must have an established Green Team
• Applicants must have completed one of more of the PLT GreenSchools! Investigations
• The proposed project must be based on the findings of one or more of the PLT GreenSchools! Investigations

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

Printed:  5/10/2016  Teacher Grants
Captain Planet Foundation Grant
http://captainplanetfoundation.org/apply-for-grants/
$250-2,500
In order to be considered for funding, proposals must:
• Promote understanding of environmental issues
• Focus on hands-on involvement
• Involve children and young adults 6-18 (elementary through high school)
• Promote interaction and cooperation within the group
• Help young people develop planning and problem solving skills
• Include adult supervision
• Commit to follow-up communication with the Foundation (specific requirements are explained once the grant has been awarded)

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

Kids In Need Teacher Grants - Deadline
http://www.kinf.org/grants/
$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.
# Teacher Grants: Rolling or Continuous Deadlines

<table>
<thead>
<tr>
<th>Teacher wishlist</th>
<th>Adopt-A-Classroom Grants</th>
<th>Adopt-A-Classroom</th>
</tr>
</thead>
<tbody>
<tr>
<td>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><a href="http://www.adoptaclassroom.org">http://www.adoptaclassroom.org</a></td>
<td><a href="http://www.adoptaclassroom.org">http://www.adoptaclassroom.org</a></td>
</tr>
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<table>
<thead>
<tr>
<th>$10,000+</th>
<th>Amgen Foundation Grant</th>
<th>Amgen Foundation</th>
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<tbody>
<tr>
<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><a href="http://wwwext.amgen.com/citizenship/apply_for_grant.html">http://wwwext.amgen.com/citizenship/apply_for_grant.html</a></td>
<td><a href="http://wwwext.amgen.com/citizenship/apply_for_grant.html">http://wwwext.amgen.com/citizenship/apply_for_grant.html</a></td>
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<tr>
<th>Approximate value - $1000</th>
<th>Amy Chamberlain Scholarship Fund</th>
<th>Bay Area Wilderness Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each scholarship provides full tuition to BAWT’s Wilderness Leadership Training (WLT), as well as additional post-course support including site visits by BAWT staff during the 12 months following WLT participation. Must apply one month prior to the class you desire to take.</td>
<td><a href="http://www.bawt.org/programs/funding/scholarships/">http://www.bawt.org/programs/funding/scholarships/</a></td>
<td><a href="http://www.bawt.org/programs/funding/scholarships/">http://www.bawt.org/programs/funding/scholarships/</a></td>
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<tr>
<th>Varies</th>
<th>Friends &amp; Family Grants - BERKELEY Schools only</th>
<th>Berkeley Public Schools Fund</th>
</tr>
</thead>
<tbody>
<tr>
<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><a href="https://schoolsfund-friendsandfamily.herokuapp.com/">https://schoolsfund-friendsandfamily.herokuapp.com/</a></td>
<td><a href="https://schoolsfund-friendsandfamily.herokuapp.com/">https://schoolsfund-friendsandfamily.herokuapp.com/</a></td>
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<table>
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<tr>
<th>discount bus rental rate</th>
<th>Black Tie Community Bus</th>
<th>Black Tie Tansportation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus is offered to non-profit organizations and to schools to transport children ages K-12 for school outings. The bus is available at a discounted rate to those who apply in advance and meet the requirements of the application process. Seating: Grades K-4, 60 passengers (3 adults required) Grades 5-12, 42 passengers (2 adults required) Rates // $75.00 per hr (5 hour min.)</td>
<td><a href="http://www.blacktietrans.com/fleet-type/community/">http://www.blacktietrans.com/fleet-type/community/</a></td>
<td><a href="http://www.blacktietrans.com/fleet-type/community/">http://www.blacktietrans.com/fleet-type/community/</a></td>
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<tr>
<th>$2500</th>
<th>California Casualty Academic Award</th>
<th>California Casualty</th>
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<tr>
<th>$1500 plus design services</th>
<th>Native Garden Design Grants</th>
<th>California Native Garden Foundation</th>
</tr>
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</table>

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Along with professional design services, grant recipients will receive assistance with creation of a garden installation and maintenance timeline and budget. Types of support include garden design services, in-kind donations of plants and landscape materials, volunteer assistance, and direct financial assistance. A typical grant cycle is about 5 months. Grant amounts are limited to $1,000 for in-kind assistance, $500 in direct cash assistance, and $5,000 for design services. Grant applications are reviewed and grants are awarded by the CNGF board. In addition to design services, each grant recipient becomes a Partner School in the ELSEE Garden Project. What does a Partner School get?

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
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<tbody>
<tr>
<td>Access to in-kind donations, such as plants and landscape materials</td>
<td></td>
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<tr>
<td>Lesson plans to use in your school native garden</td>
<td></td>
</tr>
<tr>
<td>Discounts to your teachers, students, parents, and garden committee members to attend CNGF Saturday technical and artistic workshops, twice monthly, presented by visiting artists and garden technology experts</td>
<td></td>
</tr>
<tr>
<td>Invitation to visit ELSEE at 76 Race Street to tour the gardens and observe classes in action.</td>
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<tr>
<th>Field Trip Discounts</th>
<th>Free Field Trips</th>
</tr>
</thead>
<tbody>
<tr>
<td>50% and 100%</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>
</tr>
<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 year.</td>
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<tr>
<th>Hardware</th>
<th>Classroom Computers</th>
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<tbody>
<tr>
<td></td>
<td><a href="http://computersforlearning.gov/">http://computersforlearning.gov/</a></td>
</tr>
<tr>
<td></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>
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<tr>
<th>Technology</th>
<th>Digital Wish List</th>
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<tbody>
<tr>
<td></td>
<td><a href="http://www.digitalwish.com/dw/digitalwish/home">http://www.digitalwish.com/dw/digitalwish/home</a></td>
</tr>
<tr>
<td></td>
<td>Teachers to create a technology wish list. Online crowd sourcing provides funding</td>
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<table>
<thead>
<tr>
<th>Wish List</th>
<th>Classroom Wishlist</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="http://www.donorschoose.org/teachers">http://www.donorschoose.org/teachers</a></td>
</tr>
<tr>
<td></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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<table>
<thead>
<tr>
<th>Discounted Bus</th>
<th>Parks Express Transportation Services</th>
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<tbody>
<tr>
<td></td>
<td><a href="http://www.ebparks.org/activities/educators/trips#parkex">http://www.ebparks.org/activities/educators/trips#parkex</a></td>
</tr>
<tr>
<td></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>Up to $500</th>
<th>Science By Nature Transportation Fund</th>
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<tbody>
<tr>
<td></td>
<td><a href="http://www.evols.org/transportation-fund-2016">http://www.evols.org/transportation-fund-2016</a></td>
</tr>
</tbody>
</table>
|                      | 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.  
* For schools with 70% FRPM or greater, the maximum subsidy is $500 per bus.  
* For schools with 40-69% FRPM, the fund will pay up to the percentage of your FRPM (e.g. a school with a 50% FRPM will get a subsidy of 50% of bus costs up to a maximum of $250 per bus).  
* For youth-serving organizations (e.g. an after-school program serving a community with 70% FRPM or greater), the maximum subsidy is $500 per bus. |

<table>
<thead>
<tr>
<th>Free Admission</th>
<th>Free Admission to CA Title 1 Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="http://www.exploratorium.edu/visit/field-trips">http://www.exploratorium.edu/visit/field-trips</a></td>
</tr>
<tr>
<td></td>
<td>Free admission to provided to all CA Title 1 schools.</td>
</tr>
</tbody>
</table>

Children's Creativity Museum

Computers for Learning

Digital Wish List

DonorsChoose.org

East Bay Regional Park District

Environmental Volunteers

Exploratorium

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Printed: 5/10/2016
$100 to $500  Funds for Outdoor Field Trips  Field Trip Foundation

http://www.fieldtripgroup.org/for_teachers.html

Grants for outdoor environmental education field trips for grades 3 - 5. Grants are provided to teachers in Bay Area schools with a majority of low-income students. Grants range from $100 to $500, but exceptional grants may be approved up to $1000. Grants with a lower cost per student will be more favorably evaluated. Can be used for program or bus fees.

Varies  Education Grant Database  GrantWrangler

http://www.grantwrangler.com/

Check out this website for all types of grants for classrooms

Free Admission and Transportation  Free Monday Field Trips and Transportation Grants  Hiller Aviation Museum

http://www.hiller.org/mondays_at_the_museum.shtml

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.

$250 to $1,000  Youth Microgrant Program  Karma for Kara Foundation

http://karmaforkara.org/get-involved/apply-for-a-microgrant/

Kids 18 and under to apply for funds between $250 and $1,000 to complete service projects in their communities. Whether it is turning a vacant lot into a community garden, rebuilding a school playground or helping senior citizens get their homes ready for winter, we want to hear what project you’re passionate about.

$1000-$5000  Education Grants  Kinder Morgan Foundation

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

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

$500?  My Macy’s District Grants and Event Sponsorships  Macy’s Inc

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.

up to $150  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

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Printed: 5/10/2016  Teacher Grants - Rolling Deadlines
Classroom Grants

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

Point Bonita YMCA

Get to the Coast discount

https://docs.google.com/forms/d/1JIl-DSgYDo+jbs5pYLWxXbCzeOZ4zu6xikizLKwu7B0/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

StopWaste.org

Mini Grants - Waste Reduction

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.

Teacher Planet

Grants for Teachers

http://grants4teachers.com/

Database of education grants of all types and amounts.

The Cedar Tree Foundation

Environmental Education Grants

http://www.cedartreefound.org/

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.

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 educational curriculum with students are all donated, free of charge for the benefit of the school and its students.

The Kresge Foundation

Healthy Environments grant

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

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 healthful foods and that reduce the emphasis on products without nutritional benefits.

Toshiba America Foundation

Mini-Grants For Grades 6 - 12

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?

US Fish & Wildlife Services

School Yard Habitats Grants

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

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

Printed: 5/10/2016

Teacher Grants - Rolling Deadlines
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

$5000 Education Grants Wells Fargo Foundation

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

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

Magic Tree House
http://www.baykidsmuseum.org/visit-us/exhibitions/magic-tree-house/
(May 28 – September 5, 2016) - Based on the best-selling children’s book series written by Mary Pope Osborne, the Magic Tree House® traveling exhibit allows children to branch out through history via a magical, time-traveling tree house. Join Jack and Annie, two ordinary siblings from Frog Creek, Pennsylvania, as they are whisked away in time to experience three important periods in American history: the first Thanksgiving, the Civil War, and life on the prairie circa 1870. Children explore history through immersive environments, period costumes, props, and more than 30 hands-on learning experiences.

Fab Lab
http://www.baykidsmuseum.org/visit-us/exhibitions/fab-lab/
New Exhibit: The Bay Area Discovery Museum is launching the world’s first early childhood Fab Lab on May 14. The Fab Lab is a maker space with digital fabrication technology such as 3D printers, laser cutters, and vinyl cutters. The Fab Lab exhibition will allow children to intentionally build science, technology, engineering, and math (STEM) skills through hands-on learning. The Museum will be the first to pioneer meaningful use of such technologies with the youngest learners: children ages 3-10.

California Academy of Sciences

Twilight Zone: Deep Reefs Revealed
http://www.calacademy.org/educators/field-trips
Opens June 10, 2016 in the Coral Reefs of the World gallery. Step inside a realm known as the twilight zone—a narrow, dimly lit band of the world’s oceans more mysterious to scientists than the surface of the Moon. In this new aquarium exhibit, discover the beauty and importance of the little-known reefs that exist between 200 and 500 feet below the ocean’s surface. Meet spectacularly colorful fish and rarely seen invertebrates, learn about the innovative technologies that are enabling Academy scientists to study this new frontier, and discover what you can do to help protect these amazing—and vitally important—ecosystems.

Planetarium: Incoming!
http://www.calacademy.org/incoming
Embark on a journey back in time and across the Solar System, following the paths of asteroids and comets that have collided with Earth—and those that roam far from home. These ancient objects travel billions of years before reaching Earth, and their impact can be so powerful that just one collision can change the course of life on our planet. Scientists aren’t waiting for asteroids and comets to come to us to learn more about them—get an up-close look at spacecraft sent to rocky asteroids and icy comets to collect invaluable data. You’ll follow the trek of the Chelyabinsk meteor as it entered the Earth’s atmosphere in 2013 and visualize major shifts in the history of the Solar System billions of years in the making—and all in under an hour. Daily 30-minute showings begin March 11 in Morrison Planetarium. Tickets are free with admission to the Academy and can be picked up at the Planetarium kiosk.

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.

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.
Strandbeest: The Dream Machines of Theo Jansen
http://www.exploratorium.edu/strandbeest/visit
(May 27 - September 5, 2016) This summer, experience Strandbeest: The Dream Machines of Theo Jansen at the Exploratorium at Pier 15. This special exhibition features enormous kinetic sculptures called strandbeests—“beach animals” in Dutch—that mesmerize with their eerily lifelike motion. These amazing beasts walk a wandering, wind-blown line between art and engineering, mechanics and biology.

Lawrence Hall of Science
Berkeley

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.

Lindsay Wildlife Experience
Walnut Creek

What’s Wild—What’s Not
http://lindsaywildlife.org/events/8245-2/
New exhibit exploring the question of what is wild and what is not. Live animals such as bearded dragons, rats, guinea pigs, and more.

Maker Faire

Friday at Maker Faire - May 20
http://www.eventbrite.com/e/fridaymakerfaire-2016-for-schools-tickets-20746255609
Friday at Maker Faire offers discounted tickets for teachers and their classes to come explore Maker Faire. $10 per student. $15 per chaperone.

Monterey Bay Aquarium
Monterey

¡Viva Baja! Life on the Edge
http://www.montereybayaquarium.org/animals-and-experiences/exhibits/viva-baja
(Opens March 19, 2016) The slithery. The scaly. The spectacularly showy. Discover incredible animals from land and sea in this special exhibition featuring creatures from the coastal habitats of Baja California. Life here thrives on the edge of sand and surf, where rugged desert coastline meets the sapphire waters of the Pacific.

Oakland Museum of California
Oakland

Bees: Tiny Insect, Big Impact
http://museumca.org/exhibit/bees
(Closes January 15, 2017) - 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

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.

The Tech Museum of Innovation
San Jose
Temporary Exhibits
BioDesign Studio

http://www.thetech.org/biodesignstudio

Biology has become a powerful and revolutionary technology in today’s world, uniquely poised to transform and propel innovation in the near future. BioDesign Studio will engage the public in interactive exhibits that spark imagination and confidence with the burgeoning fields of synthetic biology, bioengineering, biological design and DIY biology. To demystify these cutting-edge fields and technologies, visitors will be empowered to explore, tinker and design with the building blocks of life. The gallery will deliver more than just knowledge; it will allow people of all ages to personally create with biology. We hope to inspire and equip the creative problem-solvers of the future with a biological tool kit and mindset.
Professional Development

May 2016

5/14/2016  Earth and Human Activity  Bay Area Earth Science Institute
For Grades:  4th;5th;6th;7th;8th;9th;10th;11th;12th
https://docs.google.com/forms/d/1Omgqp4-TSDP8V51XiYY13vAYZd6QkUTQpDgnavvaS9l/viewform
Cost  FREE  Stipend:

In this session we'll explore Next Generation Science Standards core idea “Earth and Human Activity” as an engaging context for helping students to understand the real-world relevance of science, technology, and engineering. This workshop will supply an overview of two aspects of how people depend upon and change our planet: mineral resources and climate change.

5/16/2016  Code Studio with Code.org  The Tech Museum of Innovation
For Grades:  K;1st;2nd;3rd;4th;5th
http://code.org/professional-development-workshops/5515621
Cost  free  Stipend:

At this workshop you will explore Code.org’s Code Studio, a fun curriculum that blends online learning with unplugged, hands-on activities. Please bring a laptop or tablet and charger. A pizza lunch will be provided; you are welcome to bring your own lunch.

5/19/2016  Webinar: Amazing Science Experiences on a Shoestring Budget  EdWeb.net
For Grades:  K;1st;2nd;PK;TK
http://home.edweb.net/webinar/science-shoestring/
Cost  FREE  Stipend:

9:00 AM - 10:00 AM (Pacific Time) -Steve Spangler shares his secrets for uncovering the coolest science treasures at Walmart, Home Depot, and your local grocery store. Come prepared to join Steve on stage, get your hands messy and learn some simple strategies, to help young children build their own age-appropriate science connections. During the session, Steve Spangler shares some effective ideas for connecting some of your favorite children’s literature to an assortment of eye-catching, hands-on science activities. Learn how to use elements of the story line to teach and reinforce fundamental parts of your early childhood science curriculum. He’ll also share some free online resources from his SICK Science series that are guaranteed to spark your children’s excitement and creativity. This session is best suited for early childhood educators, Pre–K to 2nd grade.

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.

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 5/10/2016  Professional Development
5/19/2016  Engineering is Elementary: Designing Hand Pollinators  The Tech Museum of Innovation
For Grades:  1st;2nd;3rd;4th;5th
https://tickets.thetech.org/calendar/view.asp?id=55143
Cost  $140  Stipend:
Jennifer Janzen of the Santa Clara County Office of Education will teach educators how agricultural engineering can be facilitated in the classroom with a focus on life sciences through Boston Museum of Science: Engineering is Elementary. Educators will take away facilitation tips, resources, materials lists, suggestions for English-language learners and the confidence to engineer in the classroom.

5/21/2016  STEAM into Environmental Community Awareness  The Tech Museum of Innovation
For Grades:  1st;2nd;3rd;4th;5th;6th;7th;8th
http://www.thetech.org/educators/workshops-events
Cost  $2  Stipend:
In this workshop educators will learn how to help students create awareness about pollution in their community and worldwide through technology while incorporating research, graphic design, photography and collaboration.

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

5/18/2016 - 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.

5/13/2016 - 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.
5/23/2016 Summer 2016 #1- (May 23 - July 3) - 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 $520 Stipend:
Summer 2016 - Session 1 - May 23, 2016 - July 3, 2016

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:
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.

5/26/2016 Webinar: Designing and Creating Maker Spaces
EdWeb.net
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK;TK
http://home.edweb.net/webinars/2016-05/
Cost FREE Stipend:
2:00 PM - 3:00 PM (Pacific Time) - Most educators think robotics, 3D printing and construction when they envision maker spaces, so how does this concept fit into the curriculum? By using design thinking as a framework for instruction, we will explore the possibilities for students to engage in empathy, seek new problems to solve, then prototype and test their solutions. When students start to create material for a larger audience, they ultimately need a way to make their ideas into physical realities. We will look at the pedagogy and the process to help make this happen. Topics will include:
Discussion of the pedagogy behind the evolution of maker spaces
Examples of maker spaces from around the world
Ideas for how you can bring design thinking and making into any curriculum

5/31/2016 Webinar: What's New in Space?
EdWeb.net
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;PK;TK
http://home.edweb.net/webinars/2016-05/
Cost FREE Stipend:
10:00 AM - 11:00 AM (Pacific Time) - Appropriate for Students. In this TIME For Kids webinar, students will hear from TIME editor Jeffrey Kluger about what is happening in space exploration. Kluger is an editor-at-large at TIME magazine. He is the author of nine books, and often writes about space and NASA for TIME and time.com. During his presentation, Kluger will report on the Year in Space mission, and NASA’s efforts to send astronauts to Mars in 2030. He will also talk about the Pluto expedition New Horizons, and NASA’s efforts to explore the outer reaches of space beyond our solar system. In addition, Kluger will talk about new spacecraft and rockets being developed by private companies such as SpaceX.

5/31/2016 Webinar: The Bebras Challenge: Bringing STEM to Your Classroom
EdWeb.net
For Grades: 5th;6th;7th;8th;9th;10th;11th;12th
http://home.edweb.net/webinars/2016-05/
Cost FREE Stipend:
12:00 PM - 1:00 PM (Pacific Time) - Do you have trouble keeping your students engaged in informatics or computational thinking? Do you find it difficult to involve the youngsters? You are not the only one. All over the world teachers are trying to find new ways to teach kids that informatics and computational thinking is becoming more important in our daily lives and future careers. Bebras is an international initiative to bring computational thinking to your classroom. It is an online challenge where students solve interactive tasks. The goal is to recognize the children with an aptitude for computational thinking. Bebras is interesting for your entire student population, not only for the best students. Bebras delivers four different challenges, aimed at different age groups. Each challenge consists of 5 easy questions, 5 medium questions and 5 hard questions. The questions showcase different aspects in the field of computational thinking.

During this webinar, we will show you how easy it is to use this challenge in your curriculum and how it can be a step-up to other computational thinking/coding/informatics subjects. Try the practice challenge at: http://challenge.bebraschallenge.org/

June 2016

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

Cost: FREE

Stipend: FREE

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 Make/Learn Celebration
For Grades: K;1st;2nd;3rd;5th;6th;7th;8th;9th;10th;11th;12th
https://www.eventbrite.com/e/makelearn-celebration-tickets-24579996431

Cost: FREE

Stipend: FREE

10:00 AM to 1:00 PM - Come play, create and learn--all for free--at the San Mateo County Office of Education STEM Center's first Make/Learn Celebration! Experience making activities including 3D design and printing (the TechShop Inside! trailer will be on site providing 3D demos), LED Throwie art, paper circuitry, robotics and more! Explore the nexus of making and learning, the growth of makerspaces in schools, and the value of making for engaged learning.

For Grades: 6th;7th;8th
http://sanmateo.k12oms.org/eventdetail.php?id=110164

Cost: FREE

Stipend: FREE

This professional learning experience is geared toward Grades 6-8 teachers and K-8 Science TOSAs. Go deeper with the NGSS Science and Engineering Practice of "Developing and Using Models" by teaching your students how to create their own models and simulations using the free, online programming environment called StarLogo Nova.

6/4/2016 Hiking Leadership 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: $10

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

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Printed: 5/10/2016
Professional Development
6/9/2016  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  $20  Stipend:
9:30 am - 4:00 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.

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.

6/6/2016 - 6/10/2016  Science in the Park  California Academy of Sciences
For Grades:  K;1st;2nd;PK;TK
http://www.calacademy.org/events/teacher-workshops
Cost  $50  Stipend:  $250 stipend upon completion of entire course.
9:00 AM to 3:00 PM - Explore the San Francisco Botanical Garden, the California Academy of Sciences, and Golden Gate Park. This immersive week-long workshop will provide you with the tools, techniques, and confidence to give your students meaningful outdoor learning experiences. Our content focus for the week will be TREES. What parts do trees have? What do those parts do? How do animals interact with trees? How do trees shape the forest habitat?
This is a five day workshop series taking place on June 6 - 10. Each session is from 9:00 am - 3:00 pm. In order to participate, you must be able to attend all five sessions.

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:
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.

6/15/2016  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 $20  Stipend:
9:30 am - 4:00 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.

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.

6/15/2016 - 6/16/2016  Project Based Learning  San Mateo County Office of Education
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.smcoe.org/learning-and-leadership/professional-development
Cost $200  Stipend:
Learn how to deeply engage your students in relevant, purposeful learning through the planning and development of a robust project. Hone your skills in managing a lively, student-driven classroom, designing instruction that is grounded in standards and meaningful in the world.
PBL is a multi-dimensional, interdisciplinary methodology that is best implemented in teams. This two-day introductory experience is followed by customized support and is ideal for those new to PBL.

6/13/2016 - 6/17/2016  The STEM Learning Lab  Center to Support Excellence in Teaching
For Grades: 6th;7th;8th;9th;10th;11th;12th
https://cset.stanford.edu/pd/courses/science-literacy
Cost $550-600  Stipend:
Accomplished math and science teachers make teaching look easy. But what are they really doing that is so effective? In this course, 6-12th grade STEM teachers will have the opportunity to develop expertise enacting the practices of accomplished STEM teachers with actual students. Specifically, teachers will plan and rehearse instructional activities with one another, enact them with actual middle and high school students who will spend a few hours each day with us, then reflect, debrief, and prepare to do it again. Teachers will leave with a process for developing their expertise in one or more practices into the 2016-17 school year, and will have the option of continued collaboration and support.

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Printed: 5/10/2016  Professional Development
6/13/2016 - 6/17/2016  
**Science Talk!**  
For Grades: 6th; 7th; 8th; 9th; 10th; 11th; 12th  
[https://cset.stanford.edu/pd/courses/science](https://cset.stanford.edu/pd/courses/science)  
*Cost:* $550-600  
*Stipend:*  
How do your students talk about science? How can you use their language practices as a resource? This group will engage new and veteran science teachers in discussing student talk samples from a strengths-first perspective. We will explore research-based practices for supporting students to engage in discourse and argumentation in science class. Participants will also unpack the language demands of the NGSS. Time will be given during the course to develop or modify materials to use in your own classroom.

6/12/2016 - 6/18/2016  
**Forestry Institute for Teachers - Plumas County**  
For Grades: K; 1st; 2nd; 3rd; 4th; 5th; 6th; 7th; 8th; 9th; 10th; 11th; 12th  
*Cost:* $25  
*Stipend:*  
These week-long workshops provide participants with Forestry curriculum resources guides, Project Learning Tree and Project Aquatic WILD training, and a $100 stipend, plus housing, meals and curriculum materials.

6/16/2016 - 6/18/2016  
**Educator Workshops**  
*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 - 6/19/2016  
**Sierra Institute: Patterns, Proportions and Practices**  
For Grades: 3rd; 4th; 5th; 6th; 7th; 8th; 9th; 10th; 11th; 12th  
[http://www.calalive.org/?q=professionaldevelopment](http://www.calalive.org/?q=professionaldevelopment)  
*Cost:* $299 early bird reg. until 4/15  
*Stipend:*  
(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.

6/15/2016 - 6/19/2016  
**Wilderness Leadership Training Tahoe National Forest**  
For Grades: K; 1st; 2nd; 3rd; 4th; 5th; 6th; 7th; 8th; 9th; 10th; 11th; 12th  
*Cost:* $195-$700  
*Stipend:*  
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Printed: 5/10/2016

Professional Development
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.

6/20/2016   IISME Summer Fellowships - apply ASAP
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://iisme.org/teachers
Cost    FREE   Stipend:    $9000

Program runs June 20-August 12, 2016 - 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.

6/20/2016   Teacher Research Academies
For Grades:  6th;7th;8th;9th;10th;11th;12th
https://education.llnl.gov/programs/teacher-research-academies/summer-schedule
Cost    $20   Stipend:

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

6/22/2016 - 6/23/2016   A Celebration of Yosemite National Park & Outdoor Learning
For Grades:  1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.calalive.org/professionaldevelopment
Cost    $75   Stipend:

Take this opportunity to go deeper into your CIB field training. Enjoy camping, hiking, the natural history of Yosemite National Park, and how to incorporate hands-on outdoor learning into your NGSS lesson plans with some of your CIB educators. Fees: $75, includes meals and campsite.

6/21/2016 - 6/23/2016   Inquiry
For Grades:  K;1st;2nd;PK;TK
http://www.calacademy.org/events/teacher-workshops
Cost    $35   Stipend:    $150 stipend upon completion c

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Printed:  5/10/2016   Professional Development
9:30 am - 3:30 pm - What exactly is scientific inquiry, and how can you integrate it into your classroom? Engage in inquiry as a learner to experience for yourself the benefits and challenges of this approach to science learning. Then explore age-appropriate strategies for doing inquiry with your students. Leave with the confidence to bring these fun and effective scientific practices into your classroom.

This is a three part workshop series taking place on June 21, 22, and 23. Each session is from 9:30 am - 3:30 pm. In order to participate, you must be able to attend all three sessions.

**PLT/ Schoolyard Habitat Program**

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

http://ucanr.edu/sites/PLT_UCCE/Attend_a_Workshop/Workshop_Calendar/

**Cost:**

Elk Grove - Lesson plans are flexible and can be easily incorporated into existing curriculum or non-formal education programs. The activities are correlated to state and national academic standards, including Common Core, and have an emphasis on STEM. Join the 650,000 educators across the country who use PLT’s award-winning materials with their students. Independent evaluators determined PLT increases students’ knowledge, reasoning, and academic skills.

1. Self-paced online workshop (approximately 4 hours)
2. PLT’s PreK-8 Environmental Education Activity e-Guide

**Stipend:**

**Creating Innovators Design Thinking & Maker Spaces**

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

http://ettsummer.org/#Workshops

**Cost:** $595

While we cannot predict what the future looks like, we do know that innovation and creativity are skills that our students will need. Design Thinking has emerged as a proven framework for helping people develop a creative problem solving mindset. The Design Thinking process first identifies a problem and then proposes and tests solutions, all with the needs of the end user in mind. In this session, we will take a hands-on approach to understanding Design Thinking and how we can use its principles to create a learning environment that engages students, fosters curiosity, and encourages a collaborative approach to solving problems. In the first part of this session, we will engage in hands-on design challenges. Next, we will explore ways that exemplar schools have incorporated Design Thinking activities into their own curriculum and how the Maker Movement, a movement to empower students as creators and tinkerers can be utilized to support students and educators as they prototype solutions to problems. We will also explore how to incorporate Maker Empire and 3D printing into the design and creation of a physical product. Finally, we will create specific activities and examples that you can use with your teachers and students right away to foster exploration and creativity.

**Resilient Schools Training**

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

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

Printed: 5/10/2016

Professional Development
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)

6/19/2016 - 6/25/2016
Forestry Institute for Teachers - Tuolonme County
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.forestryinstitute.org/
Cost $25
Stipend:
These week-long workshops provide participants with Forestry curriculum resources guides, Project Learning Tree and Project Aquatic WILD training, and a $100 stipend, plus housing, meals and curriculum materials.

6/29/2016 - 6/30/2016
Discover the NGSS Workshop - San Diego
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.nsta.org/conferences/ngss3.aspx
Cost $  
Stipend:
The NGSS offers an exciting opportunity to rethink classroom science instruction. This 1½-day workshop aims to support teachers as they undertake that process—providing both resources and key learning experiences. Participants experience an NGSS lesson, watch an NGSS lesson unfold in a real classroom, take a deep-dive into the three dimensions, explore how the elements inform instructional design, and discuss the use of anchor phenomenon and storylines for developing coherent units.

July 2016

6/26/2016 - 7/2/2016
Forestry Institute for Teachers - Shasta County
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.forestryinstitute.org/
Cost $25
Stipend:
These week-long workshops provide participants with Forestry curriculum resources guides, Project Learning Tree and Project Aquatic WILD training, and a $100 stipend, plus housing, meals and curriculum materials.
7/5/2016 - 7/7/2016  
**NGSS Spotlight: Unlocking Scientific and Engineering Practices**  
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: $150 stipend upon completion  

Where do you begin applying the three dimensions of the Next Generation Science Standards (NGSS) in your classroom? How do you integrate the Science and Engineering Practices into grade-level appropriate activities? Shine a spotlight on the Practices in this intermediate-level NGSS workshop. Explore how the Science and Engineering Practices grow in depth and sophistication as students progress from grades K-12. Experience sample lessons to discover what the Practices look like at different grade levels. Leave with the skills to begin adapting your curriculum to the NGSS using the Practices as the gateway to re-imagining content.  

This is a three part workshop series taking place on July 5, 6, and 7. Each session is from 9:30 am - 3:30 pm. In order to participate, you must be able to attend all three sessions.

7/1/2016 - 7/11/2016  
**Educator Academy in the Amazon Rainforest**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://www.amazonworkshops.com/educator-academy.html  
Cost $2375 land only  

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.

7/11/2016  
**Summer 2016 #2 - (July 11, 2016 - August 21, 2016) - Online PD**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://learn.amnh.org/  
Cost $520  

Summer 2016 - Session 2 - July 11, 2016 - August 21, 2016  
Climate Change, Earth: Inside and Out, Evolution, In the Field with Spiders, Water, Genetics, Genomics, Genetics, The Diversity of Fishes, Space, Time and Motion

7/13/2016  
**Webinar: Teaching Reading in the Content Areas**  
For Grades: 3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://www.pbs.org/teacherline/catalog/courses/RDLA130/  
Cost $355  

July 13- August 23, 2016 - Help students unravel the mysteries and complexities of scientific concepts by training them to approach science texts in new ways. Learn effective strategies to help your students become independent readers and learners as they navigate science texts such as arranging ideas, understanding text organization, setting goals for reading, making meaningful connections, and persevering through challenging materials. This course aligns with the National Council of Teachers of Mathematics' (NCTM) Communication Standards. Note: This is a facilitated course. Learners submit coursework and participate in asynchronous discussions throughout the course term, and receive graded feedback. Classroom Link-Access to students recommended. PBS Classroom Link courses ask learners to implement lessons with their class or with a small group of students (options for learners without access to students are available).

7/13/2016  
**Webinar: Teaching Reading in the Content Areas**  
For Grades: 3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://www.pbs.org/teacherline/catalog/browse/?js=0&sa=2  
Cost $355  

July 13- August 23, 2013 - Master new strategies to address students' reading and learning across grade levels and content areas, explore environments that promote effective learning, and examine necessary skills for reading content material successfully. This course shares essential techniques to support independent reading and learning and identifies opportunities for students to access prior knowledge, set a purpose or target for reading, organize and summarize ideas, take notes, and reflect on their discoveries with satisfaction. Note: This is a facilitated course. Learners submit coursework and participate in asynchronous discussions throughout the course term, and receive graded feedback. Graduate credit available for an additional fee.
7/13/2016  Webinar: Structure of the Earth System - STEM Prof. Devel. from WGBH  PBS TeacherLine
For Grades: 5th;6th;7th;8th;9th;10th;11th;12th
http://www.pbs.org/teacherline/catalog/browse/?js=0&sa=2
Cost $355  Stipend:
July 13 - August 23, 2016 - A topic immersion course on Teaching Earth and Space Science Develop content knowledge about landform processes, data sets, and mapping tools while you learn effective teaching methodologies, strategies, and tools for use in teaching earth and space science concepts. Uncover the processes that account for the Earth's ever-changing appearance and investigate how the rock cycle connects to these processes.
Note: This is a facilitated course. Learners submit coursework and participate in asynchronous discussions throughout the course term, and receive graded feedback.
Graduate credit available for an additional fee.

7/12/2016 - 7/13/2016  Stability and Change— Effects of Invasive Species on California Habitats  California Institute for Biodiversity
For Grades: 1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.calalive.org/professionaldevelopment
Cost $75  Stipend:
GGNRA- Marin Headlands: Enjoy two days of hiking and learning about invasive species’ ecology, impacts, and management with CIB. Participants will learn how invasive species are incorporated into the new California Science Standards, and how they can incorporate environmental stewardship projects and citizen science into their lessons on invasive species. Attendees will participate in a hands-on invasive species removal project and will visit a native plant restoration site. Fee: $75 for invasive species course, $100 for both invasive species and journaling courses.

7/12/2016 - 7/14/2016  Exploring Astronomy  California Academy of Sciences
For Grades: 4th;5th;6th;7th;8th
http://www.calacademy.org/events/teacher-workshops
Cost $20  Stipend:
Explore the solar system and deepen your understanding of planetary orbits, moon phases, Earth’s seasons, comets, and more. Experience both kinesthetic and digital activities that will help your students overturn their misconceptions about how the solar system works. This workshop will also highlight the NGSS Practice of Developing and Using Models. Discuss the difference between a model and a representation, and consider contexts where each can support student learning. You will leave with classroom-ready activities, greater expertise with astronomy content, and a better understanding of modeling in an NGSS context.
This is a three part workshop series taking place on July 12, 13, and 14. Each session is from 9:30 am - 3:30 pm. In order to participate, you must be able to attend all three sessions.

7/11/2016 - 7/14/2016  STEAM: Waterways  The Tech Museum of Innovation
For Grades: 1st;2nd;3rd;4th;5th;6th;7th;8th
http://www.thetech.org/educators/workshops-events
Cost $240  Stipend:
9 a.m. to 4 p.m. (includes materials, light breakfast and lunch)Spend your summer playing in the water! In this four-day professional development workshop, educators in Grades 2-6 will learn to communicate and build community awareness about water pollution through data visualization, technology and storyboarding. Come learn new, engaging ways to teach the water cycle through project-based learning in this design-thinking camp devoted to environmental water issues that affect us all.
The workshop, which connects to Common Core State Standards, will be led by Michele Guieu, who has worked closely with students and teachers on environmental topics that incorporate hands-on learning, design thinking, art and technology and will deliver a robust, engaging learning experience. Please call Group Reservations to register: 1-408-294-8324, option 3, or e-mail groupreservations@thetech.org. Teams of up to three teachers from individual schools are encouraged to apply together.

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Printed: 5/10/2016  Professional Development
Summer Institute - Reno - Implementing NGSS
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.nsta.org/conferences/summer.aspx
Cost $225
Stipend:
One-day summer institute designed to help science educators and leaders implement the NGSS. The event engages attendees with a series of sessions given by NGSS experts and differentiated for different grade band- and content-specific educator roles.

School Garden Training
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.

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

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

Introduction to the NGSS
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.calacademy.org/events/teacher-workshops
Cost $20
Stipend:
9:30 am - 4:00 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.

We’re here to help you find the science resources you’re looking for. Email us at CRS@crscience.org
Printed: 5/10/2016
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.

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.

Learn how to deeply engage your students in relevant, purposeful learning through the planning and development of a robust project. Hone your skills in managing a lively, student-driven classroom, designing instruction that is grounded in standards and meaningful in the world.

PBL is a multi-dimensional, interdisciplinary methodology that is best implemented in teams. This two-day introductory experience is followed by customized support and is ideal for those new to PBL.

one-day summer institute designed to help science educators and leaders implement the NGSS. The event engages attendees with a series of sessions given by NGSS experts and differentiated for different grade band– and content-specific educator roles.

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.

7/26/2016 - 7/28/2016  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:  $150 stipend upon completion of the workshop

This is a three part workshop series taking place on July 26, 27, and 28. Each session is from 9:30 am - 3:30 pm. In order to participate, you must be able to attend all three 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.

7/25/2016 - 7/29/2016  Understanding Global Change  UC Museum of Paleontology

For Grades:  6th;7th;8th;9th;10th;11th;12th
http://www.ucmp.berkeley.edu/about/institute16.php

Cost  $75  Stipend:  

Put on your evolution eyeglasses and your nature of science thinking cap and join us for (yet another) fun-filled five days of evolutionary explorations with biologists and educators at the University of California. The Think Evolution Summer Institute, returning for its eighth year, will combine lectures by prominent evolutionary biologists with sessions focused on hands-on activities for the middle school, high school, and community college classroom.

UC Museum of Paleontology, 2063 Valley Life Sciences Building, UC Berkeley - 9:00 am to 3:00 pm
includes lots of free resources distributed to participating teachers plus morning and afternoon snacks.
Speakers will be announced soon!

7/28/2016 - 7/29/2016  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 teacher's guide

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.

7/25/2016 - 7/29/2016  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 &

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Printed: 5/10/2016  Professional Development
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.

STEM Forum & Expo - Denver  
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

8/2/2016 - 8/3/2016  
Bay Area Field Journaling Workshop  
For Grades: 2nd;3rd;4th;5th;6th  
http://www.calalive.org/professionaldevelopment  
Cost $75  
Stipend:

Join naturalist, Jack (John Muir) Laws, and CIB educators on this two day, outdoor, journaling workshop at Coyote Hills and Redwood Regional Parks that integrates journaling into the new science standards. Instructors will teach you how to actively observe and ask scientific questions about the natural world through sketching and creative writing exercises, and they will help you incorporate these skills into the new science standards curriculum.

8/2/2016 - 8/3/2016  
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.

NGSS Inside Out: Unit Redesign Challenge  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
Cost $35  
Stipend: $150 upon completion of all three

Are you familiar with the basics of NGSS and ready to take the next step? Team up with fellow teachers and Academy educators to bring your NGSS skills to the next level. First, you will be immersed in a science learning experience and reflect on how the NGSS dimensions are applied. Then you will reimagine one of your own existing units as an NGSS-style experience. You will have access to planning resources, input from Academy educators, and feedback from your peers to support your planning process. You will leave the workshop with a redesigned unit AND tools to use for your continued planning. This is a three part workshop series taking place on August 2, 3, and 4. Each session is from 9:30 am - 3:30 pm. In order to participate, you must be able to attend all three sessions.

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Printed: 5/10/2016  
Professional Development
Beyond Bar Graphs

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
https://cset.stanford.edu/pd/courses/science

Cost $550-600

Science can provide context for teaching mathematics, and mathematics is a tool for describing patterns in what we observe in science. Elementary and middle school teachers will learn to integrate math and science more meaningfully through project and problem-based lessons.

Biological Sciences Teacher Academy

For Grades: 7th;8th;9th;10th;11th;12th
https://cset.stanford.edu/pd/courses/science

Cost $550-600

Through this course, teachers will use research-based strategies to strengthen their pedagogical knowledge in order to enhance students’ conceptual understanding. Focusing on integration of Science Practices (NGSS/AP), teachers will work collaboratively to enhance curricula to better reflect big ideas and unifying biological concepts. Teachers will explore curriculum-building, teaching practices, and assessments. We will build a network of support and empower teachers to expand and guide students’ opportunities to learn at a deeper level.

Engineering Experience

For Grades: 7th;8th;9th;10th;11th;12th
https://cset.stanford.edu/pd/courses/science

Cost $550-600

Engineering Experience (E2) is aimed at teaching middle school and high school science teachers about the engineering design process and how to integrate it into their classrooms. Teachers will learn about the Next Generation Science Standards (NGSS), with a focus on the engineering standards. Throughout the course, teachers will learn about a simple engineering design model and apply it to multiple engineering design challenges they can use in their classroom. The course will also include time for teachers to design and iterate their own engineering design lesson for their classroom.

Science Literacy

For Grades: 6th;7th;8th;9th;10th;11th;12th
https://cset.stanford.edu/pd/courses/science-literacy

Cost $550-600

What are your students strengths and struggles with reading and writing in science class? How can you support them to develop literacy skills while learning key science content? Participants in this course will learn research-based strategies for developing student’s “fundamental literacy” skills while making content culturally and linguistically relevant. Participants will also unpack the language demands of the NGSS. Time will be given during the course to develop or modify materials to use in your own classroom.

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

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  

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

8/17/2016 - 8/19/2016  
Teacher Educator Institute  
For Grades: K;1st;2nd;3rd;4th;5th  
http://www.eie.org/eie-curriculum/workshops-and-professional-development/workshops  
Cost $450  

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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Printed: 5/10/2016  
Professional Development
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.bananslugstringband.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

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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**

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**


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**

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**

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

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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
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
http://learn.amnh.org/american-museum-of-natural-history
These six-week courses developed by Museum scientists and educators incorporate the Museum's rich resources including three-dimensional virtual specimens, videos from the field, and interactive simulations. Teachers participate in discussions and activities with the Museum's scientists and educators. Continuing education units and graduate credits are available. For more information go to http://learn.amnh.org.

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

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

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

Printed: 5/10/2016
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://wwwpbslearningmedia.org/
PBS Learning Media offers free online professional development on lots of different educational topics.

Online Environmental Education for PreK-8
http://shop.plt.org/prek-8-environmental-education/
Lesson plans are flexible and can be easily incorporated into existing curriculum or non-formal education programs. The activities are correlated to state and national academic standards, including Common Core, and have an emphasis on STEM. Join the 650,000 educators across the country who use PLT’s award-winning materials with their students. Independent evaluators determined PLT increases students’ knowledge, reasoning, and academic skills.
1. Self-paced online workshop (approximately 4 hours)
2. PLT’s PreK-8 Environmental Education Activity e-Guide

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.

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

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Bring Professional Development to your School