Start the CRS Science Super Star Challenge Today!

The Science Super Star Challenge is a carefully crafted set of best practices designed to encourage and celebrate teachers who exemplify Excellence in Elementary Science Teaching. Teachers “win” the Science Super Star Challenge by completing these practices, which include: leading their students in hands-on investigations, reading and writing about science topics, exploring science via field trips or in class presentations, and participating in teacher professional development.

Some teachers are just beginning to include science in their classrooms, while others are “upping their game” and transforming their teaching practices in alignment with the Next Generation Science Standards. **We want to celebrate ALL efforts to bring more science learning opportunities to elementary K-6 students!** We will highlight all Science Super Star teachers on our website, our newsletters, and congratulatory messages to district leaders.

Congratulations to Meredith Evans and her 4th grade class at Palomares Elementary in Castro Valley for already completing the Science Super Star Challenge this year!

**Completed form and examples of student work due February 14, 2018.** Email, mail, or fax them in to CRS.

More details at [www.crscience.org/sciencesuperstarprogram](http://www.crscience.org/sciencesuperstarprogram)

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**Save the date!**

**Saturday, March 17, 2018, 9:00am—Noon.**

**CRS’s 4th Annual Science Education Resource Fair**

We invite you to take a drive through the Redwoods to Chabot Space and Science Center on Saturday morning March 17. We will have a cup of coffee waiting for you. Two dozen science education organizations will be ready to chat with you about their programs for schools and teachers. Explore the museum exhibits with your colleagues, and then come to the theater for some science demos and a chance to win prizes large and small including a free field trip to Chabot Space and Science Center for Fall 2018.

More information about our Field Trip for Teachers can be found at [www.crscience.org/educators/sciencesocials](http://www.crscience.org/educators/sciencesocials).

Find Resources from a Fall 2017 Field Trip for Teachers at the Berkeley Natural History Museums later in the Resource Guide and at [www.crscience.org/educators/FTFTfall2017](http://www.crscience.org/educators/FTFTfall2017)

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**In This Issue:**

- Resources for Teachers
  - Science Education Resource Fair
  - Science Super Star Challenge
  - Bay Area Scientists in Schools (BASIS)
  - Make sure we have your email address
  - Need Help? Ask CRS!
  - Science at Home

- **CRS Fall Newsletter**—find out what CRS has been doing over the last six months

- **Time Sensitive Science Resource Lists**
  (Professional Development, Registration Deadlines, Temporary/New Science Exhibits, Grant Deadlines)

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**To Contact CRS - Call 510-527-5212 or Email CRS@crscience.org**
**BASIS (Bay Area Scientists in Schools)**

BASIS presentations are available for free to public elementary teachers who are CRS members in the East Bay, primarily along the corridor from Pinole to Oakland. BASIS volunteers are scientists, engineers, and other STEM professionals, including graduate students and post-docs at UC Berkeley, and employees from local science-based companies. CRS recruits, prepares, and coaches these volunteers to be effective ambassadors for science teaching and learning. They bring exciting one-hour lessons directly into classrooms, engaging students in hands-on investigations and engineering challenges that are age-appropriate and aligned to standards.

Want a BASIS team to come to your classroom? Here’s how it works:

- **Watch your email!** As BASIS teams notify us of their availability, CRS sends email invitations to eligible teacher members at the appropriate grade level for specific dates and times (i.e. invitations for 3rd grade BASIS lessons are sent out only to 3rd grade teachers).
- **Reply promptly!** Presentations are scheduled generally on a first come, first served basis. Because demand for BASIS presentations often exceeds supply, we give priority to teachers who have not yet received a lesson during the current school year.
- **Watch your email again!** We will send you a confirmation of which program, date and time you have received.

More details available at:
www.crscience.org/educators/BASIS

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**Not Receiving our Emails?**

We send out a monthly e-NewsBlast and invitations for BASIS scientist volunteers via email. If you aren’t receiving these emails it means one of two things

1. We don’t have an active email for you—Please email us at CRS@crscience.org to give us your best email address.
2. Our emails may be hiding in your junk mail folder. Add Community_resources_for_science@mail.vresp.com to your contact list.

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**Need Planning Help? Ask CRS!**

Did you know that CRS is here to help you find science resources for your classroom?

- Looking for just the right field trip or in-class program?
- Want help finding a grant to fund microscopes or other science equipment?
- Interested in finding online resources for you or your students?
- Want to bounce lesson ideas off of someone?
- Trying to figure out where do get butterflies or PH paper or a recipe for “slime”?

We can help with that. All you need to do is ask! Pick the mode that is easiest for you

- **Need Help?Ask Us!** Fill out our online form. This green button is on every page of our website.
  www.crscience.org/educators/requestform/

Email us at CRS@crscience.org
Call at 510-527-5212

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**Supporting Science at Home**

Did you know that many museums around the bay offer free days or reduced admission for families?

- **Always Free:** East Bay Regional Parks, Bay Model Visitor Center
- **The Museums for All:** This program partners with museums all around the country to offer free or reduced admission to families when they show their Electronic Benefits Transfer (EBT) card and a photo ID. Bay Area partners include: Bay Area Discovery Museum, California Academy of Sciences, Chabot Space and Science Center, Children’s Creativity Museum, Children’s Discovery Museum of San Jose, Exploratorium, Habitot, Lawrence Hall of Science, Oakland Museum of California, Richmond Museum of History. http://childrensmuseums.org/about/acm-initiatives/museums-for-all

Find more science resources for families on our website at
www.crscience.org/educators/Family
With over 150 attendees, our BASIS Fall Kickoff was a huge success! We’re excited to get these teams trained and into the classroom to inspire the next generation of scientists!

**Richmond Teachers Gather for Inspiration, Information & Practical Ideas**

Squeezing, sniffing, slicing, and sampling lemons, teachers from several Richmond elementary schools gathered in September for the launch of a new CRS collaboration to Build Elementary Science Teaching (BEST). As the teachers pondered and debated the essence of lemons, or shook mystery boxes for clues to the contents, they had opportunities to learn and wonder together during a workshop aimed to help teachers deepen their science teaching practice.

Teachers from Richmond schools, including Grant, Wilson, Verde, and Ford, will have more opportunities through the CRS BEST program over the coming school year and summer to explore science phenomena, plan lessons, and even conduct field research alongside scientists. As part of the launch, teachers reflected on their current practice and established goals for the year. Top goals included increasing their use of hands-on, inquiry lessons, and giving students more opportunities to learn about science “in the real world” in order to build understanding and to be inspired about their own possible futures in science fields.

In partnership with the Lawrence Hall of Science, Bay Area Science Project and UC Berkeley Natural History Museums, CRS embarked on the BEST collaboration with the support of the West Contra Costa Unified School District. Our aim is that participating teachers, who report they currently teach little hands-on science, will become enthusiastic, empowered, and confident leading their students in science investigations and engineering challenges.

Following the first workshop, participating teachers indicated they got inspiration, ideas for hands on lessons, practical ideas/lessons to take to class, an introduction to Next Generation Science Standards, and confirmation that language arts are strengthened through science. BASIS teams have been presenting lessons on soil diversity, magnets, renewable energy and much more, bringing enthusiastic scientists as STEM role models into these teachers’ classrooms.

See photos from the Richmond BEST Collaboration on our Flickr page: www.flickr.com/photos/crscience/albums

**CRS Science Outreach Grows in the East Bay**

With over 150 attendees, our BASIS Fall Kickoff was a huge success! We’re excited to get these teams trained and into the classroom to inspire the next generation of scientists!

**2017-18 BASIS BY THE NUMBERS**

Current Volunteers: 600+
Classroom Visit Goal: 500+
Students Inspired Goal: 15,000

All smiles from a new BASIS team at our Fall Kickoff. In the words of a BASIS volunteer, “Children are always full of surprises and new ideas!”

Sign up to be a BASIS volunteer!
Email teach@crscience.org
Where to Find Collections of Fossils, Plants, Animals & Insects!

Normally closed to the public, the UC Paleontology Museum, the Jepson and University Hebaria, the Museum of Vertebrate Zoology, and the Essig Museum of Entomology opened their doors to CRS and our teacher members for our fall 2017 Field Trip for Teachers.

Scientists from each of the museums led small groups of teachers on guided tours, sharing examples and engaging explanations about the value of these vast collections to academic discovery. Specimens provide a physical “snapshot” of a species over the years, recording how the species evolved, what pollutants were prevalent at the time of collection, and so much more.

And teachers discovered that the drawers and cabinets and cases brimming with collections are still providing new insights. The scientist guides explained how new species are still being identified that have been in collections for years but had been misidentified because of similarities to known species.

For teachers inspired by the collections and how they are used to foster scientific understanding, the UC Natural History Museums and CRS have put together some resources about how teachers can create and use specimen collections in their classrooms. Teachers can also learn about how to use the UC Berkeley campus as a resource for science field trips guided by experts or on your own. We have put all these resources on our website at www.crsscience.org/educators/FTFTfall2017.

If you are interested in touring these four natural history museums, mark Cal Day 2018 (April 21, 2018) on your calendar as it is one of the few times that they open their doors for tours. calday.berkeley.edu/

Thank you to our generous UC Natural History Museums hosts for offering our CRS member teachers this rare treat of a behind-the-scenes glimpse into how present day researchers are still building understanding of our world through collections of plants, animals, insects, and fossils that have been collected over many decades.

See photos from our event on our Flickr page: www.flickr.com/photos/crscience/albums

Our next Field Trip for Teachers is Saturday, March 17 for our 4th annual Science Education Resources Fair, featuring 20+ local organizations at the Chabot Space and Science Center.

Be A Scientist 7th Grade Mentoring Program: By The Numbers

Now in its 4th year, the Be A Scientist program will reach:

3 Berkeley Middle Schools
(King, Willard, & Longfellow)
25 Science Classrooms
650 7th grade Students with
125 Scientist Mentors

Sign up to be a Be A Scientist mentor this Spring!
Email BASprogram@crscience.org

A Be A Scientist mentor helps a student develop his own science experiment studying the strength of magnetic fields
Thank You to Our Corporate, Foundation & Business Partners

These foundations and businesses are supporting our work in 2017, making it possible for CRS to provide teachers, schools and districts with free support and in-class scientist presentations. Thank you to these partners!

Grants and Sponsorships:
- Arthur Rock Foundation
- Joseph and Vera Long Foundation
- Berkeley Public Schools Fund
- Intel/Encore Fellowships Network
- Bayer Health Care
- Dean and Margaret Lesher Foundation
- Dean Witter Foundation
- Walter & Elise Haas Fund
- Cisco Systems Foundation
- Irene S. Scully Family Foundation
- Clorox Company Foundation
- East Bay Community Foundation
- Clif Bar Family Foundation
- Richmond Community Foundation
- UC Berkeley Chancellor's Community Partnership Fund
- In Dulci Jubilo, Inc
- Joseph and Mercedes McMicking Foundation
- PG&E Company Foundation
- Port of Oakland
- Goggio Family Foundation
- The Lowell Berry Foundation
- Bernard E. and Alba Witkin Charitable Foundation
- Kinder Morgan Foundation
- Associated Students University of California
- Seyfarth Shaw Charitable Foundation
- Health Advances

In-Kind Donations:
- Dublin Iceland
- Golden Tee Golfland
- Paper Source
- The Cheesecake Factory
- Pleasanton
- The Golden Skate
- The Last Bottle
- The Tech Museum of Innovation

Volunteers Build Skills in Teaching & Communicating Science

Every year we train hundreds of new volunteers to communicate their science and engineering research and share their stories with a broader audience.

Since August of this year, we have already welcomed over 150 new volunteers into our BASIS program. These volunteers have each been coached in developing an engaging “elevator pitch,” a quick 2-3 minute talk to introduce themselves to elementary school students at the start of classroom BASIS visits. In addition to describing the volunteer’s research field, the brief introduction cites the inspirations that led to their career in science or engineering. Most importantly, these introductions emphasize the real world connections of scientific research in the everyday lives of young students.

Creating an engaging elevator pitch is no easy task! But our BASIS volunteers are dedicated to becoming effective science communicators and our BASIS program managers provide the guidance and training to ensure their success. In addition to coaching new volunteers in basic communication of science and classroom management, CRS staff also presents workshops throughout the year to further develop the skills of both new and seasoned BASIS volunteers.

In our workshop on Classroom Management Techniques, we discuss effective strategies for engaging students with hands-on science and engineering lessons while maintaining student attention throughout these lessons. This workshop provides our volunteers with the tools and confidence they need when they enter any elementary classroom so that they lead successful lessons.

Through our feedback surveys from last year, our volunteers reported that they would like more training in the best ways to include students who are English Language Learners (ELL) in their BASIS lessons. In response, we have developed a workshop on Engaging English Language Learners, which covers an overview of ELL, a discussion of strategies currently used for language immersion in California schools, and the most effective strategies that encourage ELL students to participate in BASIS lessons.

Additionally, we offer a workshop that focuses on Understanding the Nature of K-5 Students. This workshop covers Kindergarten through 5th grade students, exploring what students are learning at each grade in science, reading, and math to provide a broader context to our BASIS volunteers so that they can teach more effectively. This workshop also covers the learning environments and emotional and cognitive development of students at different ages, helping our volunteers to understand which teaching strategies will be most effective for the grades they lead in science and engineering lessons.
Thank You to our Most Recent Individual Donors

Donations from May 1 through October 31, 2017

$10,000
Robert & Wendy Bergman

$1,000+
Ashley Gibb
Michael & Jennifer McDougall

$250-$999
Rodney Turner
Clayton Heathcock
Annie Ragusa
Laurel Przybylski
Elna Norman
Sally & Ted Jennings
Nancy Blachman & David desJardins

$100-$249
John Arnold
Teresa Barnett & Chris Ungson
Susan Bellone

Leonard & Marlyce Bjeldanes
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Katie McKinstry & Marc Badger
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Up to $99
Stacie Alvarez
Jane Capewell
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Elizabeth Cooke
Andrew Douglass
Kyle Erickson
Rachel Henderson
Irene & Kiyoshi Katsumoto
Susan Kattohee
Kenny Mar

This gift is in honor of: ____________________________________________________________

We will notify honoree if you provide mailing address: ________________________________

Give Now for Triple Impact! Fall Giving Goal: $25,000

To make a donation, visit our giving page

www.crscience.org/events/fallgiving

Or mail a check and the form below to:

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

Thanks to generous challenge grants from both the
Dean Witter Foundation and
Robert & Wendy Bergman,
your donation will be matched and matched again!
Give now for 3x the impact!

Another Way to Help as You Shop!
1. Go to 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.

Name: _________________________________________________________________________

Address: ____________________________________________________________________

City: _______________________________ State: ___________ Zip: ________________

Phone: _____________________________ Email: ____________________________

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

This gift is in honor of: _________________________________________________________

We will notify honoree if you provide mailing address: ______________________________
How Do You Measure Inspiration?

For those of us working to provide elementary and middle school teachers with practical support, the challenge of how to measure the impact of our work can be daunting. We know in our hearts that the connections we foster, whether between teachers and a science center or between visiting scientists and a roomful of 2nd graders, will have lasting impact that amplifies well beyond the actual interactions. As a result of a CRS workshop or event, a teacher may hone skills that will benefit not only her current classroom but future students as well. The BASIS volunteers who lead a lesson on phase changes, with spectacular dry ice demonstrations, spark flickers of interest, self-identity, curiosity, and inspiration that may kindle for years before impacting a student’s decision to apply for a STEM internship or take a high school science course.

To measure impact, some organizations seek large grants to pay for substantial research and evaluation, while others point to changing test scores, graduation rates, or other readily available metrics. What other methods are available for highlighting the impact that our work empowering teachers and inspiring students is having?

The CRS Advisory Council tackled this question at the Fall convening, and developed a robust list of assessment tools, resources, and strategies to assist us in measuring impact and telling a compelling story about the effectiveness of our programs and services.

While finding the right numbers and tracking the right data remain challenging, the Advisory Council members shared an amazing array of existing resources that will help further our efforts to track collective impact.

But, the Advisory Council members all agreed that stories from individual participants – teachers, students, scientists – provide a critical dimension. Videos, infographics, profiles, and “a day in the life of” type features all illuminate the many ways our science education work has both immediate and lasting impact.

For CRS, the comments we receive from teachers each year together form a powerful mosaic of the ways elementary science teaching and learning is transforming and growing stronger over time. While it may not tie in directly to graduation rates, we are confident that providing our youngest learners with exciting opportunities to explore, follow their curiosity, think about data that they collect themselves, and put together explanations for how their world works is providing a critical foundation for skills, self–identity, and interests that will carry with them through their K-12 years and beyond.

Inspiration comes in many shapes and sizes, and it’s not always easy to measure. We take heart in feedback like this from one of our 2017 Science Super Star honorees to confirm that our work is on track and having lasting impact on both teachers and students:

“Through the Science Super Star Challenge, every year my students get even more excited about science! The various resources, books, and prizes that CRS provides have not only helped me and my students feel recognized for being scientists but also motivates us to continue to do more science in the classroom. It’s always a great program that makes my students feel happy and proud to be young scientists!” –1st Grade Teacher, Oakland Unified School District

Sharing the Joy of Science at the Bay Area Science Festival

This fall, as part of the Bay Area Science Festival, CRS brought hands-on science explorations for families beyond the classroom walls and into some unexpected places, including local farmers’ markets and AT&T Park.

Children visiting local farmer’s markets explored activities about plant parts, microorganisms and buoyancy at the CRS pop-up science table, in collaboration with partners Science @ Cal and UC Berkeley CLEAR. Students delighted in the special Halloween-themed farmers’ market, with CRS presenters dressed up with science themed outfits to help inspire the next generation of scientists.

At Discovery Day at AT&T Park, CRS presented a “Pulley Power” activity in which students explored the physics behind fixed pulleys, movable pulleys, and pulley systems. Tens of thousands of people turned out for the day-long celebration of science and engineering.

Organized by the Science & Health Education Partnership (SEP) at UCSF, the 7th annual Bay Area Science Festival spanned over two weeks from October 26-November 11th. Some of this year’s amazing array of events included Science @ Cal’s Vision+Light exhibits, Science Friday Trivia Night, UC Berkeley Lab Tours, and much more!
Program Deadlines

November 2017

11/27/2017  Register for the 2018 Tech Challenge Now Open
Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th
https://www.thetech.org/thetechchallenge

December 2017

12/4/2017  Lottery Deadline for Winter & Spring Fieldtrips
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.ebparks.org/activities/educators/trips

12/8/2017  Spring Field trip Lottery ENDS
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
https://www.sfbotanicalgarden.org/education/schoolprograms.html

January 2018

1/2/2018  Camping at the Presidio - Camp Site Sign up Begins
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.parksconservancy.org/learn/educators/camping-at-the-presidio/

1/15/2018  STEAM Communication Fellowship Program - Deadline to apply
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.oceanexplorationtrust.org/#communication-fellowship/cb0

1/31/2018  Registration Deadline Spring Field Trips
Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.steppingoutsteppingin.org/

February 2018

2/14/2018  CRS Science Super Star Challenge
Grades: K;1st;2nd;3rd;4th;5th;6th;TK
http://www.crscience.org/educators/SSSprogram

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

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

November 2017

11/30/2017 SeaWorld & Busch Gardens Conservation Fund

Conservation Education funding for:
* Nature Deficit Disorder: Programs to encourage youth to spend more time outdoors connecting with nature.
* Leadership Development: Programs designed to identify potential conservation leaders and develop their leadership skills and knowledge base. Specifically, these programs can target young adults and offer peer connections within the conservation community to further develop the next generation of conservation leaders.

$5000-25,000

SeaWorld Education Department

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

December 2017

12/1/2017 The Bauder Endowment for the Support of Physics Teaching

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.

$500

American Association of Physics Teachers

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

12/1/2017 2017 James Cary Smith Community Grants Program

Grant proposals need to demonstrate a focus on one or more of the following programmatic categories:
* Education and engagement: Inform and engage community members about air quality issues and develop their capacity to lead behavior changes that reduce air pollution and greenhouse gases in their daily lives.
* Local air pollution impact mitigation: Reduce air pollution impacts through local, small-scale mitigation projects.
* Community-Based Participatory Research/Citizen Science: Implement community-academic partnership projects. Example: study air quality impacts or demonstrate the effectiveness of innovative mitigation strategies.

up tp $1000

Bay Area Air Quality Management District

http://www.baaqmd.gov/Grant-funding/residents/community-grants-program

12/6/2017 Green Ribbon Schools Award Program

Honors schools that are exemplary in reducing environmental impact and costs; improving the health and wellness of students and staff; and providing effective environmental and sustainability education, which incorporates science, technology, engineering, and mathematics (STEM), civic skills and green career pathways. In California, nominations for the award are made by the California Department of Education (CDE), with technical assistance from other state and federal agencies. CDE may nominate up to four schools and one school district for ED-GRS.

California Department of Education

http://www.cde.ca.gov/ls/fa/sf/greenribbonprog.asp

12/8/2017 2018 Youth Garden Grants

Priority will be given to programs that emphasize one or more of these elements: * educational focus or curricular/program integration. * nutrition or plant-to-food connections, * environmental awareness/education, * entrepreneurship * social aspects of gardening such as leadership development, team building, community support, or service-learning.

KidsGardening.org

https://kidsgardening.org/2018-youth-garden-grant/

$600-1600 gift certificate and materials

12/12/2017 Outstanding Leadership in Science Education

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

National Science Education Leadership Association

http://www.nsela.org/awards/outstanding-leadership-in-science-education-award-olise

$1000 and recognition

12/13/2017 Fulbright Distinguished Awards in Teaching Program

Twenty-four highly talented U.S. and international teachers are selected to receive a grant to study at a university, conduct research, teach classes and workshops, and develop a project pertaining to their field of educational inquiry during their semester overseas.

Fulbright Teacher Exhange

http://www.fullbrightteacherexchange.org/

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

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Printed: 11/8/2017  Teacher Grants

12/15/2017  Educator Grants  Air Force Association
https://www.afa.org/informationfor/teachers/k12grants/educatorgrants
$250  Educator Grant promotes aerospace education activities in classrooms from kindergarten through twelfth grades. The program encourages development of innovative aerospace activities within the prescribed curriculum.

12/15/2017  Career Development Grants  American Association of University Women
$2,000-12,000  Supports women who hold a bachelor’s degree and are preparing to advance their careers, change careers, or re-enter the work force. Special consideration is given to women of color, and women pursuing their first advanced degree or credentials in nontraditional fields.

12/15/2017  Numerous Teaching Awards  National Science Teachers Association
http://www.nsta.org/about/awards.aspx
varied  About 20 awards for teachers of science from Kindergarten through college. Please check out their website for more details on the awards. Various Prizes. Most have a cash prize and expenses to the NSTA conference.

12/20/2017  Bay Watershed Education and Training Program (B-WET)  National Marine Sanctuaries
$30,000-60,000  Competitively based program that supports existing environmental education programs, fosters the growth of new programs, and encourages the development of partnerships among environmental education programs throughout the San Francisco Bay, Monterey Bay, and Santa Barbara Channel watersheds.

January 2018

1/5/2018  AIAA Classroom Grants  AIAA Foundation
$250  The AIAA Foundation believes that one of the most significant means to inspire and advance the future of Aerospace is to fund grants to meet the unmet and unfunded educational need of students. Each school year, AIAA awards grants of up to $250 to worthy projects that significantly influence student learning.

1/12/2018  Teacher Induction Program  The National Teachers Hall Of Fame
http://www.nthf.org/awards
$1000 +  The National Teachers Hall of Fame serve as ambassadors both for the NTHF and the teaching profession, and are expected to uphold the standards of excellence set forth by the educational community.

1/15/2018  Community Action Grants  American Association of University Women
$2,000-10,000  Provides funds for innovative programs or non-degree research projects that promote education and equity for women and girls. Should include a clearly defined activity that promotes education and equity for women and girls. Applicants must be women who are U.S. citizens or permanent residents. Special consideration is given to projects focused on K-12 and community college girls’ and women’s achievements in science, technology, engineering or math.

1/15/2018  ecoSolution Grants  Captain Planet Foundation
http://www.captainplanetfoundation.org/grants/
$250-2,500  Grants are intended to support solution-oriented, youth-led projects that result in real environmental outcomes. Available to educators working with youth in the United States. Please note that ecoSolution Grants will only support direct project costs. Support for t-shirts, staff salaries, field trips, scholarships, beautification/landscaping, etc. will NOT be considered.

1/15/2018  ecoTech Grants  Captain Planet Foundation
http://www.captainplanetfoundation.org/grants/
up to $2,500  We believe that technology can present innovative ways to address environmental challenges – and that when dealing with digital natives, we do ourselves a disservice by asking them to unplug. Examples of previous ecoTech Grant funded projects have involved: the integration of robotics and sensors to explore water bodies, collect data, and organize clean-ups; the development of aquaponic and hydroponic systems using arduinos and remote sensing; renewable energy design challenges; biotechnology research; nature-based design applications; and many others.

1/15/2018  ecoSTEM Kit Grant  Captain Planet Foundation
http://www.captainplanetfoundation.org/grants/
1 STEM Project Kit  ecoSTEM Kits were curated to engage students in project-based learning, including observing phenomena, conducting inquiry investigations, making models, collecting data for citizen science projects, creating solutions to engineering challenges, and conducting environmental stewardship projects to solve real-world problems. Each kit contains supplies for 32 students. In addition to being available through DonorsChoose.org and for direct sale, a limited supply of kits are available as Material Support Grants.
1/22/2018  Roots & Shoots Community Campaign Mini-Grants  Roots and Shoots  
http://www.rootsandshoots.org/minigrant

$200  
Use your community map to identify a service campaign. Already involved in a campaign? Use your map to reflect on why you chose your existing campaign and explore your campaign's potential impacts.

1/22/2018  Award For Excellence in K-8 Earth Science Teaching  American Geosciences Institute  
http://www.americangeosciences.org/education/awards/roy

$2,500 + NSTA Conference  
The award is designed to recognize one teacher of grades K-8 each year for his or her leadership and innovation in Earth science education.

1/26/2018  Innovation Generation Grants for STEM education program  Motorola Solutions Foundation  
http://bit.ly/1A9UKyJ

$10,000-50,000  
Schools and organizations that demonstrate how their respective programs will move students through the education pipeline to more advanced STEM education or careers are also encouraged to apply.

1/31/2018  Fund for Teachers Grants  Fund for Teachers  
http://fft.fundforteachers.org/applications/choose_program?state=ca

$5,000-10,000  
Individuals may apply for up to $5,000 and teams may apply for up to $10,000 (all team members must meet the eligibility criteria). Upon award, Fellows will receive 90 percent of their grant award, the remaining 10 percent to be reimbursed upon completion of post-fellowship requirements.

1/31/2018  Carton 2 Garden  KidsGardening.org  
https://kidsgardening.org/2018-budding-botanist-grant/

$2500 to and $500 of product  
The Budding Botanist Grant will help our youngest citizens learn about plants, explore their world and inspire them to take care of the life they discover in their local ecosystems. Any Title I public or charter school located within 15 miles of San Francisco. Applicants must be planning a new or expanding an existing school garden program designed to teach students about environmental sustainability and the importance of biodiversity.

1/31/2018  California Coastal Art & Poetry Contest  California Coastal Commission  
http://www.coastal.ca.gov/publiced/poster/poster.html

various  
The California Coastal Commission invites California students in kindergarten through 12th grade to submit artwork or poetry with a California coastal or marine theme to the annual Coastal Art & Poetry Contest.

February 2018

2/1/2018  Alan Shepard Technology in Education Award  NASA Education  
http://www.astronautsmemorial.org/alanshepard-award.html

$1000 and recognition  
Rewards excellence in the development and delivery of technology programs. Programs which focus on aerospace and/or aeronautics will be given priority to other programs. Applicants must demonstrate how their programs ultimately benefit the students in a school or organization. Open to K-12 formal and informal educators.

2/1/2018  Learning & Leadership Grants  The NEA Foundation  
http://www.neafoundation.org/pages/learning-leadership-grants/

$2000-5000  
Supports public school teachers, public education support professionals, 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.

2/1/2018  American Honda Foundation Grant  American Honda Foundation  
http://www.honda.com/community/applying-for-a-grant

$20,000-75,000  
Supports youth education with a specific focus on the STEM (science, technology, engineering and mathematics) subjects in addition to the environment.

2/1/2018  Student Achievement Grants  The NEA Foundation  
http://www.neafoundation.org/pages/nea-student-achievement-grants/

$5000  
Project should engage students in critical thinking and problem solving that deepen their knowledge and improve students' habits of inquiry, self-directed learning, and critical reflection. Work resulting in low-income and minority student success with honors, advanced placement, or other challenging curricula are particularly encouraged.

2/14/2018  CRS Science Super Star Challenge  Community Resources for Science  
http://www.crsscience.org/educators/SSSprogram

Recognition and prizes  
We want to reward you for the science teaching and learning happening in your classrooms and schools.

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

Printed:  11/8/2017  Teacher Grants
## Teacher Grants: Rolling or Continuous Deadlines

<table>
<thead>
<tr>
<th>Teacher wishlist</th>
<th>Adopt-A-Classroom Grants</th>
<th>Adopt-A-Classroom</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="http://www.adoptaclassroom.org">http://www.adoptaclassroom.org</a></td>
<td></td>
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<tr>
<td></td>
<td>Register your classroom online. This site pairs you with people who want to give money to your classroom to purchase supplies. Is not project based.</td>
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<table>
<thead>
<tr>
<th>FREE field trip to Alcatraz</th>
<th>Alcatraz School Access Program</th>
<th>Alcatraz Island</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="http://www.nps.gov/alca/planyourvisit/school-access-program.htm">http://www.nps.gov/alca/planyourvisit/school-access-program.htm</a></td>
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</tr>
<tr>
<td></td>
<td>Public Schools with 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 - March 15. November 1-15, and December 1-15.</td>
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<table>
<thead>
<tr>
<th>$10,000+</th>
<th>Amgen Foundation Grant</th>
<th>Amgen Foundation</th>
</tr>
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<tbody>
<tr>
<td></td>
<td><a href="http://www.ext.amgen.com/citizenship/apply_for_grant.html">http://www.ext.amgen.com/citizenship/apply_for_grant.html</a></td>
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<tr>
<td></td>
<td>The areas given priority consideration within science education are: Teacher quality and professional development in math and science, and Pivotal hands-on science experience for students.</td>
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<table>
<thead>
<tr>
<th>Program Scholarships</th>
<th>Program scholarships</th>
<th>Bay Area Discovery Museum</th>
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<tbody>
<tr>
<td></td>
<td><a href="http://bayareadiscoverymuseum.org/school-visit/scholarships/">http://bayareadiscoverymuseum.org/school-visit/scholarships/</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Scholarships for school visit programs. For elementary schools serving more than 40% of students who qualify for free and reduced lunch and preschools serving more than 40% of families through child-care subsidies.</td>
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<table>
<thead>
<tr>
<th>Approximate value - $1000</th>
<th>Amy Chamberlain Scholarship Fund</th>
<th>Bay Area Wilderness Training</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="http://www.bawt.org/programs/funding/scholarships/">http://www.bawt.org/programs/funding/scholarships/</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Each scholarship provides full tuition to BAWT's Wilderness Leadership Training (WLT), as well as post-course support. Must apply one month prior to the class you desire to take.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Varies</th>
<th>Friends &amp; Family Grants - BERKELEY Schools only</th>
<th>Berkeley Public Schools Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="https://schoolsfund-friendsandfamily.herokuapp.com/">https://schoolsfund-friendsandfamily.herokuapp.com/</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td>This crowd-funding platform allows teachers to submit grant applications to fund new projects, materials, or equipment anytime throughout the year. Anyone can donate to a grant, and the site is searchable by teacher, school, and subject area. Similar to DonorsChoose but exclusively for Berkeley teachers.</td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>discount bus rental rate</th>
<th>Black Tie Community Bus</th>
<th>Black Tie Tansportation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="http://www.blacktietrans.com/fleet-type/community/">http://www.blacktietrans.com/fleet-type/community/</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bus is offered to non-profit organizations and to schools to transport children ages K-12 for school outings at a discounted rate to those who apply in advance and meet the requirements of the application process.</td>
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<table>
<thead>
<tr>
<th>$2500</th>
<th>California Casualty Academic Award</th>
<th>California Casualty</th>
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<tbody>
<tr>
<td></td>
<td><a href="http://www.calcasademicaward.com/">http://www.calcasademicaward.com/</a></td>
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<tr>
<td></td>
<td>Enter to win $2500 to cover your out of pocket expenses</td>
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<thead>
<tr>
<th>$1500 plus design services</th>
<th>Native Garden Design Grants</th>
<th>California Native Garden Foundation</th>
</tr>
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<tbody>
<tr>
<td></td>
<td><a href="http://middlebrookcenter.com/elsee/cngf/design-grants/">http://middlebrookcenter.com/elsee/cngf/design-grants/</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
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<thead>
<tr>
<th>50% and 100% field trip discounts</th>
<th>Free Field Trips</th>
<th>Children's Creativity Museum</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><a href="http://www.creativity.org/programs/school-fieldtrip-fee-waiver-request">www.creativity.org/programs/school-fieldtrip-fee-waiver-request</a></td>
<td></td>
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<tr>
<td></td>
<td>Reduced-rated and fee-waived programs for CA Title 1 and qualifying schools are now available.</td>
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*We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org*
Computers for Learning

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

Digital Wish List

http://www.digitalwish.com/dw/digitalwish/home

Teachers create a technology wish list. Online crowd sourcings provides funding

DonorsChoose.org

http://www.donorschoose.org/teachers

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. Once funded, resources sent directly to your classroom.

Discounted bus

Parks Express Transportation Services

http://www.ebparks.org/parks/publictransit/parks-express

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.

Exploratorium

https://www.exploratorium.edu/visit/field-trips

Receive free museum admission and free round-trip BART tickets for your students and chaperones. The Exploratorium is an easy ten-minute walk from Embarcadero Station. Subject to availability.

GrantWrangler

http://www.grantwrangler.com/

Check out this website for all types of grants for classrooms

Karma for Kara Foundation

http://karmafor卡拉.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.

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

Bus Transportation Scholarship - Oakland & Richmond

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. • Awarded 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.

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Printed: 11/8/2017 Teacher Grants - Rolling Deadlines
Discounted admission to Oakland Museum of California

Program Scholarship for Oakland Museum
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. * Awarded on a first-come, first-served basis.

Zoo-to-Community Discounts for Programs
Oakland Zoo
http://www.oaklandzoo.org/Zoo_to_Community.php
Oakland Zoo provides free and reduced rate science education programs through its Zoo-to-Community initiative for children and youth attending East Bay schools with significant numbers of Title 1 students. Applications are processed on a first come first serve basis for programs from September to Feb 29th. Good for ZooSchool and Wildlife Assembly programs at the zoo and ZooMobile programs at your school.

$300-$1000 First Robotics Grants
PG&E
The PG&E FIRST® Robotics program provides school and community-based student teams with funding to design and build fully functioning robots and take part in robotics competitions. Schools in the PG&E service area are invited to apply now (grants are provided on a first-come, first-serve basis)

up to $150 Classroom Grant
Pets in the Classroom
http://www.petsintheclassroom.org/teachers/
Offered to Pre-K through 8th grade classes. Supports 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. Grant can be used to purchase of animals or to cover food and material costs

Up to $2500 easy grant process
Classroom Grants
Philanthropic Ventures Foundation
http://www.venturesfoundation.org/programs/teacher-grants/
A variety of classrooms grants generally become available at the beginning of the school year. The application is one simple faxed page. You receive notification within days. Funding runs out quickly, so act quickly. Check back often as sometimes new funding sources become available.

$1000 for fieldtrips Excursion Grant - Alameda, San Mateo & SF Counties
Philanthropic Ventures Foundation
http://www.venturesfoundation.org/programs/teacher-grants/excursion-grants-program
Apply early. Fund run out. Easy application. Funds can cover the cost of transportation, admission fees and food. For public school teachers for grades K-5, Alameda, San Mateo, and San Francisco counties.

Financial Assistance Available for Qualifying Schools
Point Bonita YMCA
www.pointbonitaymca.org
Spaces still available for 2017-18 school year

Bus Funding for Oakland Unified Schools
Stepping Out Stepping In
http://www.steppingoutsteppingin.org/school-programs.html
All OUSD schools are now eligible for bus funding. Bus funding is limited to one bus per school teacher a year. Apply early! Title 1 Schools or schools that have over 75% Free and Reduced lunch program are eligible for full sponsorship by the Port of Oakland.

$1000 to $5,000 Mini Grants - Waste Reduction
StopWaste.org
http://www.stopwaste.org/recycling/business/general-mini-grant-program
StopWaste.Org looks for innovative projects which will increase individual and community involvement in source reduction efforts, decrease the amount of waste generated and sent to the County's landfills, and encourage the development, marketing and use of recycled products.

Varies Grants for Teachers
Teacher Planet
http://grants4teachers.com/
Database of education grants of all types and amounts.
12-20 trees plus planting and more

Fruit Tree Orchard for Your School
http://www.ftpf.org/apply.htm

Program 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 a 12-20 tree minimum (we do not currently offer single trees) to public or nonprofit schools. The trees, materials, orchard installation design work, and onsite environmental curriculum with students are all donated, free of charge for the benefit of the school and its students.

varies

Healthy Environments grant
http://kresge.org/programs/health/healthy-environments

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 in low-income neighborhoods.

$5000 of less

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?

Up to $8000

School Yard Habitats Grants
https://www.fws.gov/sacramento/CP/Schoolyard-Habitat/cp_schoolyard-habitat-prog.htm

Program helps create wildlife habitat at 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. Provides technical assistance and project guidance, teacher training, develop written materials.

$5000

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

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

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Printed: 11/8/2017
Teacher Grants - Rolling Deadlines
Professional Development

November 2017

11/28/2017  Physical Computing
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.abdoakland.org/maker-bar-teacher-resource-center/
Cost  free  Stipend:
4-6pm  Join us as we delve into Physical Computing, where programming and the physical world meet! Have your own device, but haven't used it yet? You are not alone - bring it along and we will dive in together! We will have technologies to try out on-site including Hummingbird, micro:bit, Makey-Makey, and Lego Robots.

11/30/2017  Designing Making Experiences
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.eventbrite.com/o/lighthouse-creativity-lab-5950964179?s=21542083
Cost  $300  Stipend:
November 30 and December 1. Spend two days planning a K-12 making project or unit of your choice and leave with a project example made by you. While being immersed in a making environment, you will make and develop, test and troubleshoot the making curriculum or project of your choice for your K-12 classroom or school.

11/30/2017  Open Maker Bar Hours: Planning for Spring Semester
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.abdoakland.org/maker-bar-teacher-resource-center/
Cost  free  Stipend:
4-6pm  Bring your curriculum ideas and challenges, consult with a coach, and use the maker bar to create prototypes for your learners’ spring semester projects.

December 2017

12/2/2017  Invention Literacy, Making and Design Thinking with Makey-Makey
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
https://www.thetech.org/education/forteachers/bowersinstitute/designmakecode
Cost  $100 (Makey-Makey and breakfast included)  Stipend:
Explore how to teach circuitry, conductivity and basic programming in Scratch using a Makey-Makey, simple materials and real-life applications. Then, design an invention based on a current project, lesson or new idea for your own learning space. All participants go home with their own Makey-Makey. Online follow-up session to be scheduled for February 2018.

12/2/2017  Rainforest Kit Training
For Grades:  K;1st;2nd;3rd
http://www.calacademy.org/events/teacher-workshops
Cost  $20  Stipend:
Explore the tropical rainforest ecosystem and get prepared to use the Rainforest Kit with your students. This kit explores where rainforests are found, what the layers are all about, and some of the plants and animals found there, all at a level appropriate for K-3 students. Visit the Rainforests of the World exhibit and discover ways to connect this unique exhibit with your curriculum.
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
<th>Grade Levels</th>
<th>Provider</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
<td>Free Cost Stipend: 3 pm Pacific - Coral bleaching is one of the side effects of an increasingly warmer ocean. Episodes of coral bleaching are happening more regularly and with greater severity as the years progress. But, what exactly is coral bleaching? Is bleached coral, dead coral? Is bleaching preventable? Can coral recover from bleaching? Join us to look at the biology of corals to understand what coral bleaching is and its potential long-term effects on coral reefs.</td>
</tr>
<tr>
<td>12/7/2017</td>
<td>From Standard to Inquiry Unit</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th</td>
<td>Resource Area for Teachers (RAFT)</td>
<td><a href="http://www.raftbayarea.org/workshops">http://www.raftbayarea.org/workshops</a></td>
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<td></td>
<td>Cost $25 for members; $35 for non-members Stipend: Common Core State Standards (CCSS) and Next Generation Science Standards (NGSS) are written such that each performance expectation concisely describes how students are to demonstrate their learning. This workshop will provide teachers with useful strategies for deconstructing (unpacking) the performance expectations and using unpacked elements to create a sequence of lessons as part of a larger inquiry unit. Participants will engage in several hands-on activities, discussions, and collaboratively create a unit outline based on specific CCSS and/or NGSS performance expectations.</td>
</tr>
<tr>
<td>12/9/2017</td>
<td>Evolution Kit Training</td>
<td>7th;8th;9th;10th;11th;12th</td>
<td>California Academy of Sciences</td>
<td><a href="http://www.calacademy.org/events/teacher-workshops">http://www.calacademy.org/events/teacher-workshops</a></td>
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<td>Cost $20 Stipend: How can you make a concept as abstract as evolution feel tangible and accessible for students? Experience hands-on activities that explore genetic variation, natural selection, adaptation, and more. In this workshop, you will get hands on with key concepts in evolution, and prepare to bring these abstract concepts into your classroom in a concrete way. Engage and build students' observation and communication skills while exploring a topic that is central to understanding biology and the world around us.</td>
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<td>Cost FREE Stipend: 3:00 PM PST The Common Core ELA Standards ask students to read resources that develop their content knowledge and critical-thinking skills. BirdSleuth has created free activity guides that bridge the gap between ELA Standards and science literacy. Common elementary trade books can be an easy way to connect students to their local birds and key science concepts because they utilize the engaging power of stories.</td>
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<td>Cost FREE Stipend: 5:00 PM PST The Common Core ELA Standards ask students to read resources that develop their content knowledge and critical-thinking skills. BirdSleuth has created free activity guides that bridge the gap between ELA Standards and science literacy. Common elementary trade books can be an easy way to connect students to their local birds and key science concepts because they utilize the engaging power of stories.</td>
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<td></td>
<td>Cost free Stipend: 4-6pm Bring your curriculum ideas and challenges, consult with a coach, and use the maker bar to create prototypes for your learners’ spring semester projects.</td>
</tr>
<tr>
<td>12/14/2017</td>
<td>Brightworks - Decmeber Maker meet up</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK;TK</td>
<td>Bay Area Maker Educators - Google Group</td>
<td><a href="https://www.eventbrite.com/o/maker-educators-7302573677">https://www.eventbrite.com/o/maker-educators-7302573677</a></td>
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<td></td>
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<td>Cost free Stipend:</td>
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Printed: 11/8/2017 Professional Development
6:00-8:00pm - Dive into Brightworks, an innovative and student driven school driven by the beliefs that everything is interesting and that we can create anything. We will explore the Brightworks model through their current mega arc of connections and mini arc of cloth. We will experiences a few activities to explore the fundamental questions that may arise during the exploration phase of an arc. Brightworks is a learning community that strives to create a meaningful learning experience for students based on depth of inquiry, collaboration through trust and creativity, and development into capable, adaptable citizens of the world.

January 2018

1/3/2018 - 1/6/2018
2018 International Meeting - Baltimore  
For Grades: 6th;7th;8th;9th;10th;11th;12th  
http://theaste.org/meetings/2017-international-meeting/  
Cost $355 (non-member rate)  
Stipend:  
ASTE is dedicated to continuing the professional growth and development of individuals who work in, or have a strong interest in, issues related to science teacher education.

1/13/2018
Design Challenge Learning and Journaling  
For Grades: 4th;5th;6th;7th;8th  
https://www.thetech.org/education/for-teachers/design-challenge-learning  
Cost $105  
Stipend:  
Participate in a sample design challenge, then see how to scale for different grades and settings, from classroom to after-school to drop-in family programs. Make connections between engineering design and journaling as a way to incorporate English language arts into your lessons. We will discuss recording methods and journal structure as well as how journaling can be used to create more opportunities for personal reflection and allow for multiple entry points for different learners.

1/16/2018  
Webinar: Exploring the Evolution of Flight  
For Grades: 6th;7th;8th  
http://www.birdsleuth.org/free-webinars/  
Cost FREE  
Stipend:  
3:00 PM PST Jump, Glide, Fly… How did flight evolve in birds? Modern birds descended from dinosaurs, but at which stage did they transition to the birds we know today? What makes a birds a bird? Journey with us to the past as we discuss the evolution of feathers and flight using Bird Academy’s online interactives and our free activities Exploring Bird Evolution.

1/18/2018  
Webinar: Exploring the Evolution of Flight  
For Grades: 6th;7th;8th  
http://www.birdsleuth.org/free-webinars/  
Cost FREE  
Stipend:  
5:00 PM PST Jump, Glide, Fly… How did flight evolve in birds? Modern birds descended from dinosaurs, but at which stage did they transition to the birds we know today? What makes a birds a bird? Journey with us to the past as we discuss the evolution of feathers and flight using Bird Academy’s online interactives and our free activities Exploring Bird Evolution.

1/19/2018  
(Not Your Typical) Teacher Lounge  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://museumca.org/not-your-typical-teacher-lounge  
Cost FREE  
Stipend:  
1st 100 get drink and food tickets  
Bring your team, make some new friends at neighboring schools, and learn about OMCA’s teacher resources while you relax. It’s a unique way to enjoy our popular Friday Nights @ OMCA with Off the Grid Food Trucks, bars, live music, and galleries open late—with special perks for teachers. ***Show up early to get your complimentary drink tickets and “grub bucks” for the food trucks (for the first 100 teachers who come by the Lounge). Enjoy free museum admission, enter a raffle, and check out the evening’s Teacher Lounge events, featuring artist talks, a chance to meet a curator, and more.

1/20/2018
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 $25  
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 NGSS.

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

Printed: 11/8/2017  
Professional Development
1/20/2018  Classroom Aquarium Education Program Workshop in Oakland

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
https://www.wikimedia.ca.gov/CAEP/R3/Workshops

Cost $25  Stipend: (50-100% of equipment cost will co

Teachers in Contra Costa and Alameda Counties. The Classroom Aquarium Education Program (AKA Trout or Steelhead in the Classroom) is a community-based program which allows students to experience first hand the delicate balance needed for animals to survive in aquatic ecosystems. Using eggs provided by a hatchery, classes set-up and maintain an aquarium for the purpose of observing the development of fish from the eyed-egg stage until they become young fry. Students engage in course of study which supports the learning experience across curriculum area.

1/23/2018  Virtual Reality and Augmented Reality for the Classroom

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
https://www.thetech.org/education/forteachers/bowersinstitute/onlyatthetech

Cost $20  Stipend:

(6:30 p.m. - 8:30 p.m.) Join the Bowers Institute for an evening exploring how virtual and augmented reality are being used in the classroom. The evening will include demonstrations, guest speakers, hands-on play and light refreshments.

1/25/2018  2D Design and 3D Carving

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK;TK
https://www.eventbrite.com/o/maker-educators-7302573677

Cost free  Stipend: dinner provided

5:30-7:30pm - Delve into 3D Carving. After looking closely at the machine and software, we will design and carve a fidget spinner with a partner, discuss curricular applications, and explore 2D design programs that support Computer Aided Manufacturing (CAM) devices such as vinyl & laser cutters. Location: Park Day School 360 42nd Street, Oakland

1/27/2018  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 $40  Stipend:

(January 27 and February 10, 2018 - In order to participate, you must be able to attend both sessions.) 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.

1/27/2018  Saturday Seminar: Helping Students Become the Leaders of Their Own Learning

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

Cost FREE  Stipend:

At Longfellow Middle School in Berkeley. "Helping Students Become the Leaders of Their Own Learning” Zaretta Hammond is a national education consultant and author of Culturally Responsive Teaching and the Brain: Promoting Authentic Engagement and Rigor for Culturally and Linguistically Diverse Students.

February 2018

2/3/2018  Engineer Your Materials: Telling Stories with Pop-Up

For Grades: 4th;5th;6th;7th;8th
https://www.thetech.org/education/forteachers/bowersinstitute/designmakecode

Cost $65  Stipend:

Simple three-dimensional forms can support the design process through storytelling, pop-up, paper craft and circuitry. We'll introduce folding, cutting and assembly, including formats for different pop-up templates and activities. Participants will go home with a kit of materials used during the workshop.

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Printed: 11/8/2017  Professional Development
2/3/2018 Exploring Phenomena: Using Science to Figure Things Out
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 $25 Stipend:
What is meant by “real-world phenomena” and how can they anchor learning in science and engineering? Build your understanding of what phenomenon-based science can be, and how to start making it happen in your classroom. “How did the Grand Canyon form?” “Where did the mass of the apple go when I threw it in the compost?” These questions about real-world phenomena are great examples of how science can be used for figuring things out. Participate as a learner in a phenomenon-based lesson, then unpackage your experience with fellow educators. Build understanding and gain tools and strategies to help choose phenomena and craft essential questions that can guide students to “figure things out” about the real world.

2/3/2018 Hiking Leadership Training
Bay Area Wilderness Training
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.bawt.org/programs/training/leadership-training/hiking-leadership-training/
Cost $30-90 Stipend: Snacks and lunch will be included
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. Location: South Bay open space preserves

2/3/2018 FEAST -Fun Exchanges & Activities for Science Teachers
Chabot Space and Science Center
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.chabotspace.org/feast.htm
Cost FREE Stipend:
(9am - 12pm) - Free for Educators (must register in advance)
Have you been looking for new, exciting, teacher-tested ideas for your science classroom? Perhaps you’ve wanted to connect with others on science resources, safety in the lab or how other teachers manage certain science demonstrations and activities? Or maybe you simply want to network with and build relationships with other local science educators.

2/10/2018 EEI Training @ Chabot Space and Science Center
California Education and the Environment Initiative
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://californiaeei.org/training/in-person-trainings/
Cost FREE Stipend:
Free environmental ed training. Contact: Lucy Christensen Lucy.Christensen@calrecycle.ca.gov (916) 323-5551

2/10/2018 - 2/11/2018 Camping at the Presidio Training
Bay Area Wilderness Training
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.bawt.org/programs/training/leadership-training/camping-at-the-presidio/
Cost $45 Stipend:
The CAP Leadership Training is designed to provide group leaders with the skills and resources to plan and lead a youth camping trip in the Presidio and beyond. During the two-day, one-night training session, group leaders acquire technical camping skills and become familiar with the Presidio’s natural and cultural resources. They are trained to lead place-based nature hikes and other outdoor activities as well as learn about the process for reserving a camping trip through the CAP program.

2/13/2018 Webinar: Data Analysis and Interpretation
Cornell Lab of Ornithology
For Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.birdsleuth.org/free-webinars/
Cost FREE Stipend:
3:00 PM PST By engaging in citizen science, students become scientists and meet NGSS Standards. During this webinar, we’ll continue our discussion of inquiry and explore how students can analyze and contribute to rich, global databases. Practice reading graphs and charts created with citizen-science data, Analyze the effectiveness of data communication through graphs, Discover how to query citizen-science databases like eBird.

2/15/2018 Webinar: Data Analysis and Interpretation
Cornell Lab of Ornithology
For Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.birdsleuth.org/free-webinars/
Cost FREE Stipend:

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Printed: 11/8/2017 Professional Development
5:00 PM PST By engaging in citizen science, students become scientists and meet NGSS Standards. During this webinar, we’ll continue our discussion of inquiry and explore how students can analyze and contribute to rich, global databases. Practice reading graphs and charts created with citizen-science data, Analyze the effectiveness of data communication through graphs, Discover how to query citizen-science databases like eBird.

March 2018

3/3/2018 FEAST -Fun Exchanges & Activities for Science Teachers
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.chabotspace.org/feast.htm
Cost: free
Topic: TBD
Stipend:

3/10/2018 Invention Literacy, Making and Design Thinking with Makey-Makey
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
https://www.thetech.org/education/forteachers/bothersinstitute/designmakecode
Cost: $100 (Makey-Makey and breakfast included)
Stipend: Explore how to teach circuitry, conductivity and basic programming in Scratch using a Makey-Makey, simple materials and real-life applications. Then, design an invention based on a current project, lesson or new idea for your own learning space. All participants go home with their own Makey-Makey. Online follow-up session to be scheduled for May 2018.

3/10/2018 Experiencing the Levels of Inquiry
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.calacademy.org/events/teacher-workshops
Cost: $40
(Saturday March 10 and Saturday March 24, 2018) What exactly is scientific inquiry? Does the linear “Scientific Method” we see in textbooks accurately represent how science is done in the real world? How might my students benefit from different kinds of inquiry experiences in the classroom? This two-day hands-on, inquiry experience can help you explore these questions, and many more! Engage in your own inquiry project as an adult learner, coming up with your own testable question about one of our aquarium animals, and planning an observational study to collect and analyze data. You will learn what the experience of scientific inquiry is really like, as compared to more “cookbook” classroom science activities.

3/13/2018 Webinar: Understanding Ocean Acidification
For Grades: 1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://sanctuaries.noaa.gov/education/teachers/webinar-series.html
Cost: FREE
3 pm Pacific - Data in the Classroom is designed to help teachers and students use real scientific data to explore dynamic Earth processes and understand the impact of environmental events on a regional and global scale. In this presentation, participants will dive deep into Data in the Classroom's Ocean Acidification Module to explore the processes that cause acidification, examine data from across the globe and take a virtual tour of the new web-based curricular modules and data tools.

3/13/2018 Using Creativity Practices to Advance Learning
For Grades: 2nd;3rd;4th;5th
https://creativity.org/educatorworkshops/
Cost: $30
Stipend: Digital stop-motion animation is a powerful tool for learning, and offers a unique way to nurture students' creativity, collaboration, and literacy skills. In this hands-on workshop, educators will experience the process of stop-motion animation and discuss ways to implement digital storytelling in their classrooms. Students to work together to develop a story concept, create a variety of characters and settings, and film their own stop-motion animation movie.

3/17/2018 Field Trip for Teachers/Science Resource Fair @ Chabot Space & Science Center
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.crsscience.org/educators/socience/socials
Cost: FREE
Stipend: The next Field Trip for Teachers will be at the Chabot Space & Science Center. We will be offering a science education resource fair with educators from museums and other science education providers available to talk about their programs. Chabot Space & Science Center will offer excerpts from their field trip and in class programs. Food, Door Prizes, Networking......Approximate times 9:00am-12:00pm

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Printed: 11/8/2017 Professional Development
Professional Development

By Arrangement at Your School or Available Ongoing on Your Own

By Arrangement

STEM Professional Development Offerings
http://assetinc.org

ASSET STEM Education

Your Own Design or Pick one of their topics
http://www.bananaslugstringband.com/workshops

Banana Slug String Band

Teach the Teachers - How to use the Bay Model with Your Class
http://www.spn.usace.army.mil/Missions/Recreation/BayModelVisitorCenter.aspx

Bay Model Visitor Center

Project WILD and Project Aquatic Wild
http://www.dfg.ca.gov/

CA Dept of Fish and Wildlife, Central Coast Region

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

California Academy of Sciences

Whole School Science Professional Development
http://www.crsscience.org/educators/workshops

Community Resources for Science

Teacher Workshops - Nature Journalling
http://www.johnmuirlaws.com/school-programs

John Muir Laws

Using Video and Web resources in your classroom
http://www.kqed.org/ednet/

KQED

Common Core & FOSS: Building ELA Skills through Active Science

Lawrence Hall of Science

Customized Workshop
http://www.lifelab.org

Life Lab Science Program

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

Marine Science Institute

Maker Space Support Services
http://raft.education/school-based-makerspace-services/

Resource Area for Teachers (RAFT)

Teacher Training/Team Building - Physical Sciences
http://rockitscience.com/teacherworkshops/

Rock-It Science

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

StopWaste.org

Teacher Trainings
http://www.treefrogtreks.com/

Tree Frog Treks

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Bring Professional Development to your School
School Site Specific Trainings
http://botanicalgarden.berkeley.edu/education/k12.shtml#etpdanchor

Ongoing

Open Making Hours - First Wednesdays
https://www.eventbrite.com/e/open-making-hours-tickets-36906353898
Alameda County Office of Education

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

Online Teacher Professional Development
https://www.coursera.org/courses?cats=teacherpd
Coursera

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

Web Based Professional Development
Heinemann

Edspace
http://education.kqed.org/edspace/
KQED

Bay Area Maker Educator Meetup
http://lighthousecreativitylab.org/professional-development/maker-educator-meetups/
Lighthouse Community Charter School

East Bay Maker Educator Meetup
http://lighthousecreativitylab.org/professional-development/maker-educator-meetups/
Lighthouse Community Charter School

Free Webinars
NASA Education

NSTA Professional Development Resources
http://www.nsta.org/pd/
National Science Teachers Association

Online Courses for Educators in the Sciences
www.sciencteacher.org
National Teacher Enhancement Network

Online Webinar Classes on a variety of topics
http://www.pbs.org/teacherline/
PBS TeacherLine

Online Environmental Education for PreK-8
http://shop.plt.org/prek-8-environmental-education/
Project Learning Tree

Rock-it Science Teacher Community
http://rockitscience.com/teachercommunity/
Rock-It Science

Webcast: Science How - Monthly programs
https://qrius.si.edu/science-webcast-schedule
Smithsonian

Berkeley Professional Development for Educators Calenda
https://events.berkeley.edu/index.php/calendar/sn/pded.html
University of California Berkeley

Online Graduate Certificate in Advancing Science Content Knowledge
http://www.wheelock.edu/academics/professional-development-opportunities/online-courses
Wheelock College

Online Professional Development Workshops
http://www.pbslearningmedia.org/
PBS Learning Media

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Printed: 11/8/2017
Bring Professional Development to your School
Temporary & New Science Exhibits Around the Bay Area

Bay Area Discovery Museum

Measurement Rules
http://bayareadiscoverymuseum.org/exhibits/
(September 23, 2017 – January 14, 2018) Measure height, distance, volume and more in this interactive exhibit that introduces visitors to various units of measurement. Master the basics and then begin to compare, classify, and categorize numerous methods of measurement using standard and non-standard tools. These hands-on experiences allow visitors to understand measurement in relation to the world around them. This exhibit will enable visitors to achieve something new, collaborate with others and become confident in the language of measurement.

Bay Model Visitor Center

Paintings of the California Coast – Art Exhibition
http://www.spn.usace.army.mil/Missions/Recreation/BayModelVisitorCenter/CalendarofEvents.aspx
(November 14, 2017 – January 3, 2018) Judy Molyneux received an MFA from the University of Michigan. Then went on to teach art at Georgia Southern College. When she arrived in Bolinas in the 70s, she opened her own gallery where she has been showing her work ever since. SFMOMA Artist Gallery represents her in the city.

California Academy of Sciences

Pterosaurs Exhibit
https://www.calacademy.org/pterosaurs
For as long as dinosaurs walked the Earth, flying animals called pterosaurs ruled the skies. Not birds, not bats, not dinosaurs—these extraordinary winged reptiles adapted for life in the air and were the first vertebrates to evolve powered flight. Explore rare fossils and discover the amazing diversity and evolution of these ancient creatures. Walk beneath a life-size model of the largest animal to ever navigate the skies. View an array of real pterosaur skulls alongside colorful illustrations of head crests. “Soar” through the sky and virtual prehistoric landscapes within a “Fly like a Pterosaur” interactive.

Tis the Season for Science
https://www.calacademy.org/exhibits/?tis-the-season-for-science
(November 22 through January 7) Tis the Season for Science: Life on Ice, the Academy’s annual holiday exhibit, celebrates the remarkable adaptations that allow Arctic and Antarctic animals to thrive in snowy ecosystems. This year, see how another animal adapts to life on ice: You! Lace up your skates and take a spin around our all-new outdoor ice rink.* With several skating sessions available daily, you’ll have plenty of time to perfect your form.

California Coastal Commission

2017 Coastal Art & Poetry Contest Exhibition
https://www.coastal.ca.gov/publicated/poster/mm17/gallery1-2017.html
The contest will be on exhibit at the Seymour Marine Discovery Center in Santa Cruz December 2017 through late January 2018.

Code.org

Computer Science Education Week - December 4-10
https://csedweek.org/
December 4-10, 2017. Try an Hour of Code. Website is full of resources you can use to spend some time learning about computer science and having an experience with coding.
CuriOdyssey

**IlluminOdyssey**

https://curiodyssey.org/activities/family-events/illuminodyssey/


David Brower Center

**Douglas R. Tompkins – On Beauty**

http://browercenter.org/exhibitions-programs/polarobsession/

(September 24, 2017 - February 21, 2018) the David Brower Center’s 9th Annual Art/Act Award and exhibition honoring art that inspires environmental advocacy and engagement. This fall, the David Brower Center is honoring Doug’s life and work with Douglas R. Tompkins – On Beauty, a photography exhibition and accompanying book. The project will consider how the pursuit of beauty became a central, animating force in Doug’s intellectual development and informed his entire worldview. The exhibition and book also will explore several key themes: how the diversity of life emerges from beauty; how beauty and ecological health are intrinsically linked; and how Doug’s personal narrative intersects with conservation history, especially at this particular moment in humanity as we face a collapsing biosphere.

DiscoverE

**National Engineers Week - February 18-24, 2018**

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

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

Don Edwards San Francisco Bay National Wildlife Refuge

**Art Show and Sale to Benefit Education Programs at the Refuge**


(Exhibit runs through November 30, 2017) at the Environmental Education Center in Alviso. Local artist Kathy Kleinsteiber has donated framed prints of her watercolor paintings to the San Francisco Bay Wildlife Society to be sold. The entire sale price will go toward the educational programs in Alviso. These high-quality, limited edition giclee prints are framed with archival mats, wood frames and plexiglass glazing. The artwork will be on display until November 30, 2017. You may purchase any print now, but will need to come back after the exhibit to retrieve your purchase so that the show will remain intact for others to enjoy. Hurry in for the best selection! Kathy Kleinsteiber is a San Jose nature artist who left the Silicon Valley tech industry to follow her lifelong passion for creating art. She loves to explore nature and to create artwork based on what she sees along the trail.

Endangered Species Day

**Endangered Species Day - May 18, 2018**

www.endangeredspeciesday.org

Endangered Species Day is an opportunity for people of all ages to learn about the importance of protecting endangered species and everyday actions they can take to help protect them.

Legion of Honor

**The Future of the Past: Mummies and Medicine**


(through August 26, 2018) Ancient Egypt meets modern medicine in this exhibition that uses state-of-the-art scientific techniques to explore two of the Fine Arts Museums’ mummies. An interdisciplinary team of scientists, Egyptologists, physicians, and museum curators and conservators has learned more about how these embalmed individuals lived, died, and were prepared for eternity.

Lindsay Wildlife Experience
Golden Gate Audubon Society Centennial Art Exhibit
https://lindsywildlife.org/events/golden-gate-audubon-society-centennial-art-exhibit/
(Through January 2, 2018) The Golden Gate Audubon exhibit features stunning photos of Bay Area birds, from tiny Chestnut-backed Chickadees to powerful Golden Eagles. Golden Gate Audubon Society is one of the oldest conservation organization in the Bay Area and was founded in 1917 by former students of UC Berkeley ornithology professor Harold Bryant.

National Audubon Society

The Great Backyard Bird Count
http://gbbc.birdcount.org/
(February 16-19, 2018) Great citizen science project to do as a class or encourage students to do at home.

Oakland Museum of California

Metamorphosis & Migration: Days of the Dead
http://museumca.org/exhibit/days-of-the-dead-2017
(October 18, 2017–January 14, 2018) This year, OMCA's biennial Days of the Dead exhibition is inspired by the lifecycle of the Monarch Butterfly. Known for its mass migration each winter, this butterfly’s journey spans several generations, all of whom follow the same routes their ancestors took. In Mexico, the returning Monarchs also symbolize the returning souls of loved ones who have passed away. In Metamorphosis & Migration: Days of the Dead, explore ofrendas and artworks inspired by the Monarch’s migration and themes of tradition and transformation. View rarely-seen butterfly specimens from OMCA’s collection alongside newly commissioned artworks. Artist Hung Liu honors her mother’s passing through a series of heartfelt paintings. Favianna Rodriguez ponders migration and immigration in a new way using her “Migration is Beautiful” butterfly imagery. Chris Treggiari and Peter Foucault honor colleague Alex Ghassan, who lost his life in the tragic Ghost Ship fire. And, traditional Days of the Dead altars by Bea Carrillo Hocker and Rafael Jesús González, as well as installations by Oakland International High School and Thornhill Elementary School, energize this communal space for reflection and empowerment in these turbulent times.

J.B. Blunk: Nature, Art & Everyday Life
http://museumca.org/exhibit/jb-blunk-nature-art-everyday-life
(April 21–August 26, 2018) Discover northern California’s best kept secret in design and craft: J.B. Blunk (1926–2002), a mid-century artist whose connection to nature governed his daily life. Inspired by Japanese philosophies of nature and art’s inseparability, and influenced by rural utopian communities, Blunk’s muse and often his source of materials was the beautiful natural environment of Inverness, California. Blunk’s home property was his ultimate work of art, filled with his handcrafted furniture, ceramics, sculptures, and other functional objects used by his family. His remarkable craftsmanship also took the form of large-scale public works of art, including The Planet, a redwood sculpture commissioned by the Oakland Museum of California in 1969. J.B. Blunk: Nature, Art, & Everyday Life brings together a comprehensive survey of the artist’s works. See northern California’s landscape anew through Blunk’s eyes, and get inspired to find the beauty of nature and art in your own daily life.

Take Root: Oakland Grows Food
http://museumca.org/exhibit/take-root-oakland-grows-food
(December 16, 2017–January 13, 2019) Unearth Oakland’s multi-layered world of food in Take Root: Oakland Grows Food, an exhibition exploring the ecological and cultural factors of how and why food is grown in Oakland. Enjoy this hands-on exhibition with the entire family to understand what factors determine where, how, why, and what is grown throughout the city. Hear personal stories from farmers and growers within the community, see compelling illustrations and maps, and meet the diverse flavors of Oakland. Learn what motivations Oaklanders have for growing food—including access to healthy and delicious ingredients, environmental and social justice values, or simply the joy of tending a garden. Visitors are invited to share personal stories, explore interactive activities, and gain a deeper understanding of Oakland’s agriculture.

Oakland Zoo

California Trail Opening Summer 2018
http://www.oaklandzoo.org/california-trail
Oakland Zoo is pleased to present California Trail, an exciting new exhibit that helps you explore of our state’s natural past, present, and future. This state is our home, and we encourage you to be inspired by its natural wonder. Currently the gondola and The Landing Café are open. The animal exhibits and the rest of California Trail will open summer 2018.

Points of Light
National Volunteer Week - April 15-21, 2018

http://www.pointsoflight.org/signature-events/national-volunteer-week

National Volunteer Week is about inspiring, recognizing and encouraging people to seek out imaginative ways to engage in their communities. By working together, we have the fortitude to meet our challenges and accomplish our goals.

SF Botanical Garden & Strybing Arboretum

Art Exhibit: Kristin Jakob: Botanical Illustration Retrospective

http://www.sfbotanicalgarden.org/library/art-exhibit.html

(September–December 2017) Displaying the meticulous art and a glimpse into the admirable life of a well-known local botanical artist and native plant enthusiast, this exhibit traces Kristin's artistic journey from talented middle school artist to award-winning botanical illustrator. The exhibit features book, magazine, scientific journal and poster illustrations, various commercial and private commissions, and a selection from her self-published line of botanical prints.

The Tech Museum of Innovation

Reboot Reality

https://www.thetech.org/rebootreality

Draw a house — then walk through it. Create art using a digital brush with individual bristles and paint that mixes, layers and dries just like the real thing. Soar through the clouds and over the Manhattan skyline, just like a bird. This is just a sample of what you’ll find in Reboot Reality, a digital experience lab opening Friday at The Tech. Reboot Reality features experiences for all ages. Kids under 13 can paint their hearts out on a pressure-sensitive tablet so high-powered, you’ll only find it at The Tech. Or take a VR tour of the new San Jose Diridon Project. The world is your canvas if you’re 13 and up, as you paint and sculpt in VR or take flight in Birdly.

Body Worlds Decoded

http://www.thetech.org/bodyworldsdecoded

We’ve put a Silicon Valley twist on the incredible plastinated human bodies that have sparked curiosity and awe around the world, and we can’t wait to share it with you and your students. As your students wander through this expansive gallery, they’ll explore the smallest organs to the most complex systems, including nervous, respiratory, cardiovascular, urinary, reproductive, digestive and locomotive. Using Iris, The Tech’s custom augmented reality device, and other emerging technologies, Body Worlds Decoded allows students to see and explore the human body like never before. Body Worlds Decoded is included with general admission. A Body Worlds Decoded field trip fact sheet is available for you to send home to parents or guardians giving them information on what their child will see and experience in the exhibition.

University of California Berkeley

Cal Day Open House - April 21, 2018

http://calday.berkeley.edu/

From Astronomy to Zoology, explore the wonders of science! There are a a huge range of activities for adults and families. Tour the Berkeley Natural History Museums (Valley Life Sciences Building) and Berkeley's renowned research labs. Arrive early to register for a place on a Museum of Paleontology tour! Tour the Space Sciences Laboratory, Lawrence Hall of Science and the Botanical Garden (take Hill Shuttle from Evans Hall east entrance). Meet Cal scientists at numerous talks and hands-on presentations.
Community Resources for Science
1611 San Pablo Ave. Suite 10 B
Berkeley, CA 94702
(510) 527-5212 • www.crscience.org
Tax ID #: 94-3262587

“My students were ecstatic and it is a great opportunity to see scientists as approachable role models. The visitors were excellent and it was a great medium for science instruction.”
- OUSD 4th Grade Teacher

Students extract DNA from strawberries during a Day of Science

Students fascinated by models during a BASIS lesson on adaptations

CRS Team

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