Join us October 18, 4:00-6:00pm on the shores of Lake Merritt for our fall Field Trip for Teachers

We have partnered with the Lake Merritt Boating Center, Junior Center of Art and Science, and Rotary Nature Center to provide an afternoon of networking and exploring the education programs that make use of our unique urban Lake Merritt.

RSVP:
https://crs-lakemerritt.eventbrite.com

This is a “progressive” party in that we will move from one organization’s location to the next. Enjoy sample lessons of their programs for schools, light refreshments and a chance to network with CRS and teachers who are enthusiastic about bringing meaningful science experiences to their students.

- **(4:00-4:40) Lake Merritt Boating Center**
  Learn about the local watershed, analyze student data, and discover what lies beneath the surface by using a plankton tow.

- **(4:45-5:25) Junior Center of Art & Science**
  Experience the unique and creative art/science programs offered at the Center and in schools.

- **(5:30-6:00) Rotary Nature Center**:
  Learn about the history of Lake Merritt, the Rotary Nature Center, and the nature programs offered through the museum. After that, we’ll go on a sunset bird walk to view the winged residents of the lake!

Celebrating 20 Years of Supporting Teachers, Connecting Scientists & Inspiring Students

You are one of the over 3,500 teachers who have been part of Community Resources for Science membership network over the past 20 years! Has CRS helped you to learn about professional development opportunities, find resources, or plan field trips? Have you welcomed our enthusiastic Bay Area Scientists in Schools volunteers into your classroom to deliver free, high-quality lessons while inspiring your students to consider futures in science or engineering? Thank you for your dedication to strengthening your teaching skills and bringing more science and engineering opportunities and role models for your students!

As we count the many accomplishments and the impact of our dynamic network of teachers, scientists, engineers, and partner organizations over the past 20 years, we hope we can also count on you, our amazing teachers and STEM professionals, to help us celebrate! We invite you to make a tax deductible gift of $20 today, in honor of 20 years of service and to plant the seeds for the next 20 years!

Donate at: http://tiny.cc/JustGiveCRS

Together we are inspiring the next generation of scientists, engineers, problem-solvers, leaders, and creative thinkers! Thank you for helping us celebrate, and pave the way for even more great science teaching and learning!

Thank you for your support and for being a part of our dynamic network of educators, STEM professionals, and partners working to transform science teaching and learning!
It's back! The annual two-week festival featuring tons of fun, free science and engineering activities and events offers something for everyone -- kids, adults, and families. Check out the full schedule, and the amazing range of topics, at www.bayareascience.org. This year's festival offers plenty of opportunities for you, your students, and their families to explore, discover, and enjoy.

You will find CRS and our wonderful BASIS volunteers at the following free events.

**Hands-on Science at the Farmer's Market:**
- **Sunday Streets** Shattuck Ave, Berkeley - Sunday, October 16th, 11am-4pm
- **Downtown Berkeley** - Center St @ MLK—Saturday, October 29th, 10am-3pm
- **South Berkeley** - Adeline & 63 St - Tuesday, November 1st, 2-5pm

**Discovery Days @ AT&T Park** - Sat, November 5th, 10am-4pm. Finale of the Bay Area Science festival: an all-day science extravaganza full of interactive exhibits, activities, games and more!

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**BASIS (Bay Area Scientists in Schools)**

These 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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**Invite CRS to a Staff Meeting!**

**Sign up Now!** Check your calendars and give CRS a call. CRS provides free PD to our partner schools in Oakland, Berkeley, Emeryville and West Contra Costa.

Want a brief 15-30 minute overview of CRS services? We’ll show you how CRS can help you find lesson ideas, field trips and in-class programs, grant opportunities, and materials. Find out about our BASIS scientist volunteers program. Kick off your school year with getting your whole staff involved in the CRS Science Super Star Program.

**Plan a more extensive professional development presentation.** CRS offers customized one- to three-hour workshops on topics such as:

- **How to link the Common Core Standards with the Next Generation Science Standards?**
- **How to start planning for a science fair or family science night?**
- **Introduction to engineering in the elementary setting.** It's not just about building bridges! Learn some fun and engaging projects that you do in your classrooms. And about resources for exploring further.

**Sign up at:**
www.surveymonkey.com/r/Fall2016PD

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**Our Impact Over 20 Years**

We have supported over 3,550 teachers with timely information about science resources in the Bay Area, professional development workshops, grants, and Field Trips for Teachers.

More than 2,100 scientists have brought hands-on science lessons to 3,800 classrooms sharing the joy of doing science and engineering with over 100,000 students.
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.

This year, the Science Super Star Challenge has two levels and a separate challenge for Science Specialists. 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 K-5 students! Select the level that best fits your teaching practices this year.

- **Level 1 Science Super Star:** Making Great Science Happen in My Classroom! Are you successfully including science teaching in your classroom?
- **Level 2 (Optional) Science Trailblazer and Science Specialists:** Exploring and Transforming! Are you beginning to implement new approaches and incorporate NGSS practices to your science teaching?

For more details go to [http://www.crscience.org/sciencesuperstarprogram](http://www.crscience.org/sciencesuperstarprogram)

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CRS website: A Wealth of Resources — [www.crscience.org/educators/tools](http://www.crscience.org/educators/tools)

We have gathered science teaching tools to make your job of planning science lessons a little easier.

- **Science Resources sorted by Grade Level and Science Content Area** — Science education programs in the Bay Area, kid-friendly and teacher-friendly science and engineering websites, sample materials for classrooms.
- **Lesson Planning Tools** - Documents and worksheets to assist in planning engaging, effective science lessons and information about promoting inquiry, Lesson Reflection, Student Assessment, and Technology in the Classroom.
- **30 Favorite Science Education Websites** - Explore the best of the web all from one place. We keep going back to these sites again and again to find inspiring ideas, useful videos, and great content tutorials.
- **Science Literature Connections** — Connecting learning across the curriculum is a powerful way to reinforce skills while exploring new content material. Bring your science and language arts teaching together.
- **Engineering** - Now part of the requirements of the Next Generation Science Standards (NGSS). Resources to help you bring engineering lessons and concepts into your science classroom, including hands-on activities, and websites.
- Teaching science in Spanish? Have some English Language Learners who need a little extra support? CRS has gathered science resources in Spanish for you and your students.
- **Science Fair** projects can be a great way to have students explore the science and engineering practices of the Next Generation Science Standards. We’ve got helpful resources to make your Science Fair a success.
- **Family Science & Engineering Nights** are great events for celebrating science learning with the community. We have put together a collection of activities that work well for these types of community events.
## Program Deadlines

### October 2016

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Grades</th>
<th>Organizer</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/15/16</td>
<td>Register for the 2017 Tech Challenge</td>
<td>4th;5th;6th;7th;8th;9th;10th;11th;12th</td>
<td>The Tech Museum of Innovation</td>
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<tr>
<td></td>
<td></td>
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<td><a href="https://www.thetech.org/thetechchallenge">https://www.thetech.org/thetechchallenge</a></td>
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<tr>
<td>10/17/16</td>
<td>Webinar: Deadline Fall 2016 PD (Oct 31 - Dec 11)</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th</td>
<td>American Museum of Natural History</td>
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<td><a href="http://learn.amnh.org/">http://learn.amnh.org/</a></td>
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<tr>
<td>10/21/16</td>
<td>Lottery Deadline for 2016-17 School Programs</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th</td>
<td>Marina Education Programs - City of Berkeley</td>
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<td><a href="http://www.ci.berkeley.ca.us/marina-experience-programs/">http://www.ci.berkeley.ca.us/marina-experience-programs/</a></td>
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<td>10/28/16</td>
<td>Fundamentals of Inquiry(March 6-9) Early Bird reg.</td>
<td>K;1st;2nd;3rd;4th;5th</td>
<td>Exploratorium</td>
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<td><a href="https://www.eventbrite.com/e/fundamentals-of-inquiry-registration-19843583693#tickets">https://www.eventbrite.com/e/fundamentals-of-inquiry-registration-19843583693#tickets</a></td>
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### November 2016

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<th>Date</th>
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<th>Grades</th>
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<tbody>
<tr>
<td>11/1/16</td>
<td>Summer Program Application Open</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th</td>
<td>Forestry Institute for Teachers</td>
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<td><a href="http://www.forestryinstitute.org/">http://www.forestryinstitute.org/</a></td>
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<tr>
<td>11/2/16</td>
<td>Teachers at Sea/On-board Education Officer - Application Deadline</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th</td>
<td>Joides Resolution</td>
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<td><a href="http://joidesresolution.org/node/453">http://joidesresolution.org/node/453</a></td>
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<tr>
<td>11/30/16</td>
<td>Teacher at Sea program application DEADLINE</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th</td>
<td>National Oceanic and Atmosphere Administration</td>
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<td><a href="http://teacheratsea.noaa.gov/about/index.html">http://teacheratsea.noaa.gov/about/index.html</a></td>
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### December 2016

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<th>Date</th>
<th>Event</th>
<th>Grades</th>
<th>Organizer</th>
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<tbody>
<tr>
<td>12/1/16</td>
<td>Summer Fellowship Program - Applications Open</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th</td>
<td>Ignite (formerly IISME)</td>
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<td><a href="http://www.igniteducation.org/teachers/become-a-fellow/">http://www.igniteducation.org/teachers/become-a-fellow/</a></td>
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<tr>
<td>12/5/16</td>
<td>Lottery Deadline for Winter &amp; Spring Fieldtrips</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th</td>
<td>East Bay Regional Park District</td>
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<td><a href="http://www.ebparks.org/activities/educators/trips">http://www.ebparks.org/activities/educators/trips</a></td>
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<td>12/18/16</td>
<td>Earthwatch Institute Educator Fellowships</td>
<td>K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th</td>
<td>Earth Watch Institute</td>
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<td><a href="http://earthwatch.org/education/teacher-fellowships">http://earthwatch.org/education/teacher-fellowships</a></td>
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**Professional Development**

**October 2016**

**10/15/2016**  **Webinar: The Total Solar Eclipse of 2017 - Are You and Your Students Ready**  
For Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://learningcenter.nsta.org/products/online_courses/VC_161015.aspx  
Cost  Member price: $67, Nonmember price: $84  
Stipend: Includes 1 e-book  
7 a.m. – 11 a.m. PT - On August 21, 2017, we will be treated to the first total eclipse of the Sun visible in the continental U.S. in almost 40 years. The spectacular total eclipse will only be visible in a narrow band about 60 miles across, stretching diagonally across the country from a beach in Oregon to a beach in South Carolina. Everyone in North America located outside the narrow band will see a partial solar eclipse, where a big "bite" will be taken out of the Sun. If you teach students in grades 4-12, join us at The Total Solar Eclipse of 2017 - Are You and Your Students Ready for the Sky Event of the Decade? virtual conference.

**10/15/2016**  **Rainforests of the World - Classroom Kit Training**  
For Grades: 4th;5th;6th;7th;8th  
http://www.calacademy.org/events/teacher-workshops  
Cost  $20  
Stipend:  
Prepare to lead your students on an exploration of tropical rainforests, one of the most fascinating ecosystems on the planet. Topics in this kit include: the water cycle in the Amazon, the life cycle of rainforest plants, rainforest conservation challenges, and more. Kits are portable containers filled with hands-on activities, specimens, educational games, books, DVDs, and more. After attending this training from 8:30am-12:30pm, you will be eligible to borrow the Rainforest (Grades 4-8) Kit to use in your classroom.

**10/17/2016**  **Webinar: NASA Weathering the Storm - Space Weather**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
https://www.txstate-epdc.net/events/  
Cost  FREE  
Stipend:  
NASA Educator Professional Development is presenting a free 60-minute webinar for K-12 educators on October 17, 2016, at 3:30 p.m. PST. Participants will learn about space weather and how radiation impacts our Earth as well as planning for space travel and our Journey to Mars. Participants will also learn about current research going on at NASA Armstrong.

**10/18/2016**  **Field Trip for Teachers @ Lake Merritt**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
https://crscrabcove.eventbrite.com  
Cost  FREE  
Stipend:  
We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Tuesday, October 18, 2016 4:00-6:00 pm
Come explore three science education gems on the banks of Lake Merritt. We will have a "progressive" party. The Field Trip for Teachers begins at the Lake Merritt Boating Center at 4:00 then moves to the Junior Museum of Art And Science at 4:45. Then we continue along the path to the Rotary Nature Center at 5:30. We'll experience some of their education programs for schools along the way and have light snacks at each of the stops.

* At Lake Merritt Boating Center, teachers will learn about the local watershed, analyze student data, and discover what lies beneath by using a plankton tow. A description of our various programs for youth and adults here at the Lake will follow.

* At the Rotary Nature Center, teachers will learn a little bit about the history of Lake Merritt and the Rotary Nature Center, and about the different nature programs offered through the museum. After that, we'll go on a sunset bird walk to say hello to the winged residents of the lake!

10/18/2016 Teachers' Night at the Museum
For Grades: K;1st;2nd;3rd;4th;5th
http://creativity.org/teachersnight/
Cost FREE

Stipend:
5:00-7:30pm Join the Children's Creativity Museum for an evening of FREE food and wine, supplies for your classroom, and other surprise giveaways! PLUS meet our education team and learn how our standards-aligned field trips for grades preschool through high school are designed to support your curriculum while building your students' creative confidence.

10/18/2016 Outdoor Education Open House
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK
http://pby-oe-openhouse.eventbrite.com/
Cost FREE

Stipend:
5:30-7:30PM Join the Point Bonita YMCA for an Outdoor Education Open House! Parents, teachers, and all school representatives welcome! Please join us on either day for a delicious meal, a short naturalist-led hike, and an introduction to our Outdoor Education program. Each attendee will receive a complimentary lunch voucher for one of our monthly Healthy Parks, Healthy People events and a one-day pass to the Presidio YMCA.

10/18/2016 Webinar: NASA Weathering the Storm-What do we know about Snow?
For Grades: 4th;5th;6th;7th;8th;9th;10th
https://www.txstate-epdc.net/events/
Cost FREE

Stipend:
3:00 PM PDT - Investigate the possibilities of using snow studies to explore climate science. This webinar will uncover resources in data driven lesson plans. Lessons will give students opportunities to complete field research and collect data. Activities introduced will include demonstrations by the teacher, small group miming, speaking, drawing, and/or writing. Learn how to take measurements and calculate the snow water equivalent.

10/19/2016 Webinar: NASA Weathering the Storm: Building for Hurricanes
For Grades: 6th;7th;8th
https://www.txstate-epdc.net/events/
Cost FREE

Stipend:
2:00 PM PDT Whether you live in an area prone to hurricanes or not, you've seen images of the destruction caused by such storms. Data from satellites like the Tropical Rainfall Measuring Mission and now the Global Precipitation Measurement mission have vastly improved our ability to forecast the track of storms, and has led to insights that allow us to know when a storm will intensify. You will see how students take on the role of a builder by designing a building that can withstand a (simulated) hurricane.

10/22/2016 Rock! Pattern! Systems!
For Grades: 4th
https://www.nps.gov/goga/learn/education/elementary.htm
Cost FREE

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 10/11/2016 Professional Development
Rock! Pattern! Systems! takes young geologists on a dramatic trek to the Point Bonita Lighthouse, the first place in California where scientists produced a detailed geologic map. Through both individual and small group work, students use copies of the first complete world map of the ocean floor to hone their powers of observation and find patterns in seafloor mountain ranges. A close read of a short biography of the mapmakers offers context for the 3 decade struggle to produce and publish a map that changed how we think about land and sea. At Point Bonita, students investigate seafloor rocks along the trail and pose information questions and questions for deeper meaning as they construct their own understanding of the importance of accurate data in creating new scientific knowledge.

Rock! Pattern! Systems! uses the Understanding by Design framework, and aligns with the Next Generation Science Standards and Common Core Standards.

10/22/2016  **Outdoor Education Open House**
Point Bonita YMCA

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

http://pby-oe-openhouse.eventbrite.com/

Cost  FREE  Stipend:

10:30AM-1:30PM Join the Point Bonita YMCA for an Outdoor Education Open House! Parents, teachers, and all school representatives welcome! Please join us on either day for a delicious meal, a short naturalist-led hike, and an introduction to our Outdoor Education program. Each attendee will receive a complimentary lunch voucher for one of our monthly Healthy Parks, Healthy People events and a one-day pass to the Presidio YMCA.

10/22/2016  **Shadow Marine Life**
The Tech Museum of Innovation

For Grades:  2nd;3rd;4th

http://www.thetech.org/educators/workshops-events

Cost  free  Stipend:

10 a.m. to noon In this free arts-integrated, hands-on workshop, participants will explore human impact on marine species using simple circuits to create unique shadowboxes. Content is appropriate and scalable for educators of Grades 2-4. This workshop is aligned with the new Next Generation Science Standards Earth and Human Activity objectives as well as Common Core State Standards.

Participants will:
*Discuss current threats to marine species and consequences of human activity on marine ecosystems.
*Learn about planning and storyboarding.
*Construct a shadow box.
*Create simple circuits.

10/22/2016  **Tech Challenge Info. and Adviser Training**
The Tech Museum of Innovation

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

https://www.thetech.org/thetechchallenge/participantevents

Cost  free  Stipend:

Adviser training clinics are designed for advisers, parents and teachers. Training emphasizes support strategies, student safety and examples of open-ended questions, and it offers advice for first-time advisers. Advisers must be at least 18 years old. Only one adviser per team is recommended. Being an adviser is a rewarding experience, and you'll learn a lot as you support your team through the design process. To learn more about how you can best provide that support, read through our Adviser Guide.

Registration guarantees a space in the training. Walk-ins are welcome if space permits. All sessions are from 1 to 1:45 p.m. at The Tech.

10/22/2016  **Astronomy Kit Training**
California Academy of Sciences

For Grades:  5th;6th;7th;8th

http://www.calacademy.org/events/teacher-workshops

Cost  $20  Stipend:

How do we know what we know about the solar system? Get your hands on the Academy’s brand new Astronomy Kit and find out! Explore the planet Mars and discover how our knowledge about this red planet has been built over time. Start by observing the movement of a tiny red dot across the constellations, then see how telescopes transformed our observations. Consider the benefits and challenges of using rovers to learn about distant worlds, and find out how careful planning and critical thinking play a role in space exploration. After attending this training from 9:00am-3:00pm, you will be eligible to borrow the Astronomy (Grades 5-8) Kit to use in your classroom.

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

Printed:  10/11/2016  Professional Development
10/21/2016 - 10/23/2016
CSTA Annual Conference 2016
California Science Teachers Association
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.cascience.org/csta/conf_home.asp
Cost $155
Stipend:
OCTOBER 21-23, 2016- PALM SPRINGS, CA
The California Science Education Conference is the annual conference of the California Science Teachers Association (CSTA). For more than 20 years the conference has been providing up-to-the-minute educational programs for California's science educators. The conference features the perfect mix of hands-on, one-hour workshops, engaging lectures from professional scientists and university-level educators, in-depth three- and six-hour courses, one-of-a-kind field course experiences, and quality networking opportunities that are only possible when meeting face-to-face.

10/24/2016
Webinar: NASA Weathering the Storm: Weather to Fly By
NASA Education
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK;TK
https://www.txstate-epdc.net/events/
Cost FREE
Stipend:
3:30 PM PDT -Participants will learn about basic meteorological concepts that are designed to demonstrate understanding of the general characteristics of the atmosphere and how weather conditions and weather phenomena occur. There will be hands-on, standards aligned mathematics, science and engineering activities about density, mass, fluid dynamics and weather that participants can take back to their classrooms. Real world connections with NASA and the airplanes that do weather research will be discussed as we highlight a partnership between NASA Armstrong and the National Oceanic and Atmospheric Administration (NOAA) with the Sensing Hazards with Operational Unmanned Technology (SHOUT) mission.

10/25/2016
Webinar: NASA Weathering the Storm: Building for Hurricanes
NASA Education
For Grades: 6th;7th;8th
https://www.txstate-epdc.net/events/
Cost FREE
Stipend:
2:00 PM PDT Whether you live in an area prone to hurricanes or not, you’ve seen images of the destruction caused by such storms. Data from satellites like the Tropical Rainfall Measuring Mission and now the Global Precipitation Measurement mission have vastly improved our ability to forecast the track of storms, and has led to insights that allow us to know when a storm will intensify. You will see how students take on the role of a builder by designing a building that can withstand a (simulated) hurricane.

10/25/2016
Webinar: Introducing Biomimicry
Green Teacher
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://greenteacher.com/webinars/
Cost FREE
Stipend:
(4:30-5:30pm PST) Introducing Biomimicry, Inspiration and Innovation for Today’s Students and Tomorrow’s Workforce. Are you looking for a way to inspire the next generation of world-builders – engineers, research scientists, chemists, architects, city planners? Biomimicry is a new discipline that offers teachers a compelling way to engage students of all ages and cross the boundaries traditionally found in education. It supports the goals of NGSS, CCLS and STEAM and offers solution-based thinking while inspiring young people with a sense of the possible. As a link between design (arts) and science, it offers a model of relevancy because it will be part of many of the jobs of the future when today’s students are in the workforce. From elementary to high school, Biomimicry also provides a plethora of literature for linking ELA to science and the Reading Standards for Literature.

10/25/2016
Teacher Open House at Sausalito
NatureBridge at Golden Gate
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
https://naturebridge.org/golden-gate-yosemite/nature-our-classroom-naturebridge-teacher-night-bay-area
Cost FREE
Stipend:
We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 10/11/2016
Professional Development
* Food and refreshments are provided
* Interactive science stations offer a NatureBridge program preview
* Meet NatureBridge staff
* Win raffle prizes such as a National Parks Pass, Klean Kanteens, outdoor gear, and more!
* Free lesson plans for your classroom are available

10/26/2016 Webinar: NASA Weathering the Storm: Meteorology Educator Guide NASA Education
For Grades: 5th;6th;7th;8th;9th
https://www.txstate-epdc.net/events/
Cost  FREE  Stipend:
3:30 PM PDT -Participants will be introduced to Meteorology: An Educator’s Resource for Inquiry-Based Learning for Grades 5-9. Discussion will focus on the hands on activities and low cost equipment builds included in the guide. This webinar addresses Next Generation Science Standards MS-ESS2.D and HS-ESS2.D

10/26/2016 Webinar: Jump into Literacy, Math, & Science: Active Learning for Preschool EdWeb.net
For Grades: PK
http://home.edweb.net/webinars/
Cost  free  Stipend:
(11:00 am - 12:00pm) if you attend the live session, you'll be emailed a CE certificate within 24 hours of the webinar. If you view the recording and would like a CE certificate, join the Early Learning Book Chats community and go to the Webinar Archives folder to take the CE quiz. To truly educate the whole child, we must recognize children as thinking, feeling, moving human beings who learn through all their senses. Children need to physically experience concepts to fully understand them. In this webinar, Rae Pica will lead an exploration of activities that combine children’s love of movement and play with meaningful and long-lasting educational experiences in literacy, math, and science.

For Grades: K;1st;2nd;PK;TK
http://home.edweb.net/webinars/2016-10/
Cost  FREE  Stipend:
1:00 PM - 2:00 PM (Pacific Time) -Inquiry seems to be everywhere… And, an inquiry-based learning model is the recommended approach for educators to meet the Next Gen science standards, the C3 social studies standards, as well as Common Core ELA, and math. But, using an inquiry approach can be a messy and complicated way to teach – and few of us have had any training on how to teach this way!

10/27/2016 Collecting Data on Diverse organisms and their Life Cycles Math Science Nucleus
For Grades: 3rd
http://msnucleus.org/classes/teacherworkshop.html
Cost  Free  Stipend:
Collecting data on arthropod and other small organisms in the environment; butterflies and moths; beetle life cycle; ants as decomposers and their life cycles; comparing bees with flies; mimicry; design, engineering and creation of bee hives; learn how to maintain butterflies and moths in the classroom; learn about science gardens and how to use to collect data

10/27/2016 Webinar: NASA Weather Resources NASA Education
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
https://www.txstate-epdc.net/events/
Cost  FREE  Stipend:
1:00 PM PDT Rain, snow, and other forms of precipitation affect every part of life on Earth. NASA’s Global Precipitation Measurement (GPM) mission as well as MY NASA DATA website, provide students and educators with NASA resources to learn about Earth’s water cycle, weather and climate, and the technology and societal applications of studying them.

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Printed: 10/11/2016  Professional Development
10/29/2016  Engineering Basics  The Tech Museum of Innovation
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
https://tickets.thetech.org/production/view.asp
Cost  $115
We are all innovators! In this hands-on workshop, experience the fun of innovation through participation in an engineering design challenge while identifying strategies for supporting English language learners. You’ll also gain an understanding of the scope and sequence of engineering in Next Generation Science Standards across grade levels, the engineering design process, and innovator mindsets.

10/29/2016  Basic Soldering and Electronics with TechShop San Jose  The Tech Museum of Innovation
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.thetech.org/educators/workshops-events
Cost  $75 per person (materials included)
(9 a.m. to 11:30 a.m.) Take your makerspace up a notch by learning how to use solder and a soldering iron to make small stick figures, as well as how to solder electronic “through-hole” components for electronic printed circuit board assembly (PCBs). In this class, you will learn basic solder and flux types, safe soldering practices and soldering iron maintenance. You will learn to de-solder using various techniques, including a “solder sucker” tool or solder braid. In addition, you will build an LED Blinkatron 2000 — a simple soldering project that works! No experience required, and educators of all levels are welcome. Space is limited.

10/29/2016 - 10/30/2016  Wilderness First Aid  Bay Area Wilderness Training
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.bawt.org/programs/training/wilderness-medicine/wilderness-first-aid/
Cost  $195
This highly experiential 16-hour class is for anyone who wants to learn how to handle emergency medical situations in the backcountry. It covers basic wilderness first aid topics such as: patient assessment, shock and bleeding, head and spinal injuries, wounds, heat and cold illnesses and much more. Wilderness First Aid certification from Foster Calm available after successful completion of the course and wilderness exam.

10/30/2016  Code Studio with Code.org  The Tech Museum of Innovation
For Grades: K;1st;2nd;3rd;4th;5th
http://www.thetech.org/educators/workshops-events
Cost  free
At this workshop you will explore Code.org’s Code Studio, a fun curriculum that blends online learning with unplugged, hands-on activities. Please bring a laptop or tablet and charger. A pizza lunch will be provided; you are welcome to bring your own lunch.

10/31/2016  Webinar: Cosmology 101  NASA Education
For Grades: 6th;7th;8th;9th;10th;11th;12th
https://www.txstate-epdc.net/events/
Cost  FREE
3:30 PM PDT Participants will get a historical overview of the varying scientific views about the structure of the observed universe from ancient cultures to current theories. This webinar addresses Next Generation Science Standards ESS1.A.

November 2016

11/1/2016  Applications for Teacher at Sea program BEGINS  National Oceanic and Atmosphere Administration
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://teacheratsea.noaa.gov/#/how_to_apply/Call_for_Applications
Cost  FREE

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Printed: 10/11/2016  Professional Development
The mission of the National Oceanic and Atmospheric Administration’s (NOAA) Teacher at Sea (TAS) program is to give teachers a clearer insight into our ocean planet, a greater understanding of maritime work and studies, and to increase their level of environmental literacy by fostering an interdisciplinary research experience. The program provides a unique environment for learning and teaching by sending kindergarten through college-level teachers to sea aboard NOAA research and survey ships to work under the tutelage of scientists and crew. Then, armed with new understanding and experience, teachers bring this knowledge back to their classrooms. Indeed, the greatest payoff of NOAA’s Teacher at Sea program is the enthusiasm for learning more about our ocean planet generated between teachers and students. Since its inception in 1990, the program has enabled more than 430 teachers to gain first-hand experience of science and life at sea. By participating in this program, it becomes possible for teachers to enrich their classroom curricula with a depth of understanding made possible by living and working side-by-side, day and night, with those who contribute to the world's body of oceanic and atmospheric scientific knowledge.

11/1/2016  **Webinar: NASA Technology in your Classroom: Mission Imagination - Heart**  
**NASA Education**  
For Grades:  6th;7th;8th  
https://www.txstate-epdc.net/events/  
**Cost**  FREE  
**Stipend:**  
2:00 PM PDT  Step into the role of NASA flight surgeons with this innovative TI-Nspire™ activity that helps your students understand the science of how life in the microgravity of space affects the human heart. Developed by the space agency and Texas Instruments for middle grades life science and high school biology, Heart to Heart looks back to the earliest days of America’s space program; at NASA’s ongoing Human Research Program aboard the International Space Station; and forward to a manned Mars mission.

11/1/2016  **Webinar: NASA Technology in your Classroom: Exploration and Discovery**  
**NASA Education**  
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th  
https://www.txstate-epdc.net/events/  
**Cost**  FREE  
**Stipend:**  
3:00 PM PDT  Use NASA Space Place to explore and Discover Technology. Learn how humans and computers communicate. Explore the binary and hexadecimal systems and how engineers use them to translate spacecraft data into images. Explore the difference between natural and artificial satellites and use images taken by robotic spacecraft and telescopes to gain an understanding of the Earth’s place in space. Use Literacy with e books "Me on the Map" by Joan Sweeney and "My Place in Space" by Robin and Sally Hirst. There are 16 learning modules in this series.

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

11/2/2016  **Webinar: NASA Technology In Your Classroom: Space Telescopes**  
**NASA Education**  
For Grades:  6th;7th;8th;9th;10th;11th;12th  
https://www.txstate-epdc.net/events/  
**Cost**  FREE  
**Stipend:**  
3:00 PM PDT  Explore the history, present and future of NASA space telescopes that expand our understanding of the solar system and the universe beyond. The Hubble Space Telescope (HST) and the James Webb Space Telescope (JWST) will be the focus. NASA STEM curriculum, online resources and the Next Generation Science Standards (NGSS) will be integrated in this "out of this world" webinar.
11/2/2016  **Sensible Habitats - Park as Classroom Workshop**  
For Grades: K;1st;2nd  
http://www.nps.gov/goga/learn/education/elementary.htm  
Cost  FREE  
Stipend:

Required in order to take part in the park's free fieldtrip program.

11/3/2016  **Biogeology - biological & geological principles that create soil**  
For Grades: 4th  
http://msnucleus.org/classes/teacherworkshop.html  
Cost  FREE  
Stipend:

Collecting data on energy release from compost; decomposers found in compost; soil classification; creating soil from biological and geologic components; measuring food waste that turns to compost and record observation; learn how to make a compost lab on campus while preventing food waste going to landfills.

11/3/2016  **Webinar: NASA Technology in your Classroom - BEST GPIM**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
https://www.txstate-epdc.net/events/  
Cost  FREE  
Stipend:

3:30 PM PDT NASA's fleet of satellites, its airborne missions and researchers address some of the critical challenges facing our planet today. Learn about the Global Learning and Observations to Benefit the Environment (GLOBE) Program, which is an international science and education program that provides students and the public worldwide with the opportunity to participate in data collection and the scientific process, and contribute meaningfully to our understanding of the Earth system and global environment.

11/3/2016  **Point of Inquiry - Park as Classroom Workshop**  
For Grades: 4th  
https://www.nps.gov/goga/learn/education/elementary.htm  
Cost  FREE  
Stipend:

Required in order to take part in the park's free fieldtrip program. Fort Point, an enduring symbol of Gold Rush San Francisco, is the perfect site for your history sleuths to imagine, investigate, and pose questions of who, what, where, when, and why. Students explore the fort as they formulate "information questions" and "questions for deeper meaning." Through both individual and small group work, students construct their own interpretation of the significance of Fort Point and the era it represents. Following their investigation, the students are joined by a NPS representative who engages them in a discussion based on their questions and conclusions.

After a short lunch break, a representative of the Presidio Community YMCA leads your students in group games and other recreational activities.

11/3/2016  **Webinar: Planet Protecting Superheroes**  
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://greenteacher.com/webinars/  
Cost  FREE  
Stipend:

(4:30-5:30pm PST) There is often a missed opportunity in environmental education for students to apply the knowledge and skills they gain to solve real-world problems. Kids can be effective agents of change in their families. Not only do they jump at the opportunity, but recognizing their agency can increase educational outcomes, involve parents in their child’s learning and help tackle pressing environmental problems. Using examples from Planet Protector Academy, Vanessa will share how educators can empower their students to become planet protecting superheroes by:

+ Using storyline to endow their students with superhero powers and aspiration.
+ Making student learning hands-on and connecting it to the home through superhero missions.
+ Nurturing identity-based change through arts-based activities that engages the whole child.
+ Getting buy-in from families and making behaviour change easier.
+ Incentivizing participation, engagement and action through team competition and gamification.

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Printed: 10/11/2016  
Professional Development
**11/3/2016  Maker Educator Workshop**  
**Alameda County Office of Education**  
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
http://www.eventbrite.com/o/acoe-core-learning-team-6478769131  
Cost  FREE  
Stipend:  
Maker Ed PD series will strategically will focus on the effective integration of making into core areas. 1st Thursday of each month, 4:30 to 6:30.  
Focus areas are:  
* Engineering and NGSS in the makerspace (hydroelectric wheel and other challenges)  
* Making History: Invention, ingenuity as a driver of history.  
* Break to make: finding useful components in e-waste, discard technology, etc, and making new things.  
* 3D modeling historical sites. Combining Math, design, and history.  
* IoT in the classroom: hack everyday objects with raspberry Pis and coding libraries.  
* Game design & physics in Scratch  
* DIY Robots  
* Virtual Reality and Google Cardboard

**10/27/2016 - 11/5/2016  Bay Area Science Festival 2016**  
**Bay Area Science**  
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK  
http://www.bayareascience.org/festival/  
Cost  FREE  
Stipend:  
(October 27 to November 5, 2016) - The 6th Bay Area Science Festival Returns bigger and better than ever! This year's schedule is full of events all over the Bay Area. There is something for every age level and in a wide variety of topics and formats. Check out the full schedule of events at www.bayareascience.org

**11/5/2016  Coral - Classroom Kit Trainings**  
**California Academy of Sciences**  
For Grades:  3rd;4th;5th;6th;7th  
Cost  $20  
Stipend:  
Dive into the world of the coral reef ecosystem through a variety of engaging, hands-on activities and games. Learn about coral polyp anatomy, the ecological importance of coral reefs, and the critical environmental conditions necessary for coral to survive. Kits are portable containers filled with hands-on activities, specimens, educational games, books, DVDs, and more. After attending this training from 8:30am-12:30pm, you will be eligible to borrow the Coral (Grades 3-7) Kit to use in your classroom.

**11/5/2016  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:  
Inquiry-based Learning: Modeling

**11/5/2016  Tech Challenge info and Adviser Training**  
**The Tech Museum of Innovation**  
For Grades:  4th;5th;6th;7th;8th;9th;10th;11th;12th  
https://www.thetech.org/thetechchallenge/participantevents  
Cost  free  
Stipend:  
Adviser training clinics are designed for advisers, parents and teachers. Training emphasizes support strategies, student safety and examples of open-ended questions, and it offers advice for first-time advisers. Advisers must be at least 18 years old. Only one adviser per team is recommended. Being an adviser is a rewarding experience, and you'll learn a lot as you support your team through the design process. To learn more about how you can best provide that support, read through our Adviser Guide. Registration guarantees a space in the training. Walk-ins are welcome if space permits. All sessions are from 1 to 1:45 p.m. at The Tech.

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Printed:  10/11/2016  
Professional Development
11/7/2016  Webinar: NASA Technology in your Classroom: Mission Imagination - Heart  NASA Education
For Grades: 6th;7th;8th
https://www.txstate-epdc.net/events/
Cost  FREE  Stipend:
2:00 PM PDT Step into the role of NASA flight surgeons with this innovative TI-Nspire™ activity that helps your students understand the science of how life in the microgravity of space affects the human heart. Developed by the space agency and Texas Instruments for middle grades life science and high school biology, Heart to Heart looks back to the earliest days of America’s space program; at NASA’s ongoing Human Research Program aboard the International Space Station; and forward to a manned Mars mission.

For Grades: 6th;7th;8th
https://www.txstate-epdc.net/events/
Cost  FREE  Stipend:
3:30 PM PDT Participants will be introduced to NASA’s Eyes. This three-part, web-based resource allows students and educators to study Earth from Space, the Solar System, and Extrasolar Planets. This webinar addresses Next Generation Science Standards

11/9/2016  Webinar: Making Waves with NASA: Optics Resources  NASA Education
For Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th
https://www.txstate-epdc.net/events/
Cost  FREE  Stipend:
3:30 PM PDT Participants will get an overview of the NASA resources for teaching about waves, lenses, and mirrors. This webinar addresses the Next Generation Science Standard PS4.

11/10/2016  Webinar: NASA STARS en Español 2016.3  NASA Education
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
https://www.txstate-epdc.net/events/
Cost  FREE  Stipend:
9:00 AM PDT NASA STARS en Español developed from a growing need to promote awareness of NASA’s diverse career opportunities for minority populations and highlight Hispanic professionals as role models in STEM careers. It was only appropriate to do it Spanish. This monthly webcast will be lived streamed in Spanish from Kennedy to Puerto Rico, through the US, and across the world. We invite you to participate with your STEM classes, Spanish classes, Spanish clubs, etc. by watching the live stream and Tweeting questions or register to participate as a remote live audience for an event. Bring your classroom into the conversation because Students Talking About Real STEM are the STARS of tomorrow.

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

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Printed: 10/11/2016  Professional Development
11/10/2016 - 11/12/2016 **NSTA Area Conference - Portland, OR**

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

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

Cost $175 early bird registration

Stipend:

Come explore the Next Generation Science Standards and learn how science links with the Common Core State Standards in ELA and Mathematics. You can also discover how to connect Science, Technology, Engineering, and Mathematics to benefit all our students and everybody's future. We’ve planned an engaging conference filled with hands-on workshops, presentations, and field trips that will provide you with the tools to build your bridge to the future.

11/12/2016 **WestEd: Making Math Accessible to English Language Learners**

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

http://www.thetech.org/educators

Cost $350

Stipend:

Saturday, November 12 and 19 - 9 a.m. - 4 p.m.

Using the principles and approaches described in Making Mathematics Accessible to English Learners: A Guidebook for Teachers, this two - part professional development for schools and districts helps prepare teachers to provide access for all students as they implement the college- and career-readiness standards. Teams of 2 to 3 are encouraged.

To register, contact Group Reservations at 1-408-294-8324, option 3, or e-mail groupreservations@thetech.org

11/15/2016 **Design Thinking Burst**

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

https://docs.google.com/forms/d/e/1FAIpQLSfzJuHMCH8uf0VgF54QeEafmwEgLfrxHP_tmHrsgTWXY_7IBg/view

Cost FREE

Stipend:

Join the d.school from 6-8pm for a brief introduction to the design thinking process. This crash course is open to all educators who are curious about the design thinking process and want a quick experience working on a design challenge.

11/16/2016 **Webinar: Developing a Competitive Teacher Award Application**

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

http://learningcenter.nsta.org/resource/?id=10.2505/9/WSNSTA16_Nov16

Cost FREE

Stipend:

(3:30 p.m. PT) in this web seminar to learn how you can win up to $10,000 for your outstanding work as a science educator. The program will feature presenter Sheila Smith, the present chairperson of the NSTA Teacher Awards and Recognition Committee. Ms. Smith will discuss the application process for 2016–17, share insight into completing your application, and provide tips for strengthening your submission for a chance to win prize money, materials, and equipment for your classroom!

11/16/2016 **Webinar: Dissecting the Food Web: An Owl Pellet Investigation**

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

http://www.birdsleuth.org/free-webinars/

Cost FREE

Stipend:

3:00 PM PST BirdSleuth just released its newest kit Dissecting the Food Web: An Owl Pellet Investigation. Take students through the complexity of ecosystem food webs, and better understand how top predators such as owls impact food webs. In this webinar, educators will:

* Become familiar with the Dissecting the Food Web kit.
* Differentiate a food chain vs. a food web.
* Understand why owls are an important species to study when understanding ecosystem interactions.
* Learn how owl pellet dissections can meet NGSS and CCSS Standards.

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Professional Development
Albert Einstein Distinguished Educator Fellowship - Deadline
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://science.energy.gov/wdts/einstein/

Einstein Fellows usually spend a school year in a professional staff position in the U.S. Senate or House of Representatives, at the Department of Energy (DOE), or at other federal agencies such as the National Aeronautics and Space Administration (NASA), the National Science Foundation (NSF), or the National Institute of Standards and Technology (NIST).

Webinar: Dissecting the Food Web: An Owl Pellet Investigation
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.birdsleuth.org/free-webinars/

Cornell Lab of Ornithology

Webinar: NASA Technology in your Classroom: Images and Data
For Grades: 4th;5th;6th;7th;8th;9th;10th
https://www.txstate-epdc.net/events/

NASA Education

Webinar: Astrobiology and the Origin of Life
For Grades: 6th;7th;8th;9th;10th;11th;12th
https://www.txstate-epdc.net/events/

NASA Education

Webinar: NASA Apps for all ages
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
https://www.txstate-epdc.net/events/

NASA Education

Webinar: NASA Technology In Your Classroom: Robotics On A Budget
For Grades: 4th;5th;6th;7th;8th
https://www.txstate-epdc.net/events/

NASA Education

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Printed: 10/11/2016
Professional Development
Robots are a part of our everyday lives. We use them in ways we don't always realize. What are robots, how are they used in our lives and how are they used at NASA? These are some of the questions investigated in this webinar. Explore how to use robotics, inexpensively, in your classroom to enhance your students' STEM understanding by integrating NASA STEM robotics missions, curriculum, online resources and the NGSS 3-5.ETS1 / MS.ETS1.

December 2016

12/1/2016  Maker Educator Workshop
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.eventbrite.com/o/acoe-core-learning-team-6478769131
Cost   FREE
Stipend:

Maker Ed PD series will strategically will focus on the effective integration of making into core areas. 1st Thursday of each month, 4:30 to 6:30.
Focus areas are:
* Engineering and NGSS in the makerspace (hydroelectric wheel and other challenges)
* Making History: Invention, ingenuity as a driver of history.
* Break to make: finding useful components in e-waste, discard technology, etc, and making new things.
* 3D modeling historical sites. Combining Math, design, and history.
* IoT in the classroom: hack everyday objects with raspberry Pis and coding libraries.
* Game design & physics in Scratch
* DIY Robots
* Virtual Reality and Google Cardboard

12/1/2016 - 12/2/2016  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   FREE to OUSD and title 1 - $300
Stipend:

pend 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. Lunch provided. Participants of this session are eligible for CEUs from Sonoma State.

12/3/2016  Tech Challenge Info. and Adviser Training
For Grades:  4th;5th;6th;7th;8th;9th;10th;11th;12th
https://www.thetech.org/thetechchallenge/participantevents
Cost   free
Stipend:

Adviser training clinics are designed for advisers, parents and teachers. Training emphasizes support strategies, student safety and examples of open-ended questions, and it offers advice for first-time advisers. Advisers must be at least 18 years old. Only one adviser per team is recommended. Being an adviser is a rewarding experience, and you’ll learn a lot as you support your team through the design process. To learn more about how you can best provide that support, read through our Adviser Guide.
Registration guarantees a space in the training. Walk-ins are welcome if space permits. All sessions are from 1 to 1:45 p.m. at The Tech.

12/3/2016  Solder An LED Cube with TechShop San Jose
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.thetech.org/educators/workshops-events
Cost   $90 per person (includes materials)
Stipend:

(9 a.m. to 3 p.m.) Educators will master soldering as they spend the day completing an LED Cube. Participants will learn the basics to electronics and soldering and get an introduction to 2D Design. Educators will walk away from the workshop with a fully functional LED Cube, new ideas for the classroom or makerspace, and connections to Common Core and Next Generation Science Standards. To view examples, click here. This workshop is an engaging, multifaceted learning experience that incorporates soldering and basic electronics, basics to 2D design, and electronic measurements. No experience required, and educators of all levels are welcome. Space is limited.
For Grades: K;1st;2nd;3rd;4th;5th
http://www.thetech.org/educators/workshops-events
Cost  free  Stipend:
At this workshop you will explore Code.org’s Code Studio, a fun curriculum that blends online learning with unplugged, hands-on activities. Please bring a laptop or tablet and charger. A pizza lunch will be provided; you are welcome to bring your own lunch.

12/6/2016  Webinar: Picking Up STEAM: Using Models and Data to Understand Clouds  NASA Education
For Grades: 4th;5th;6th;7th;8th;9th;10th
https://www.txstate-epdc.net/events/
Cost  FREE  Stipend:
2:00 PM PDT Practice STEAM through the use of inquiry based science activities from the NASA curriculum guides. The activities and N.A.S.A. educational websites introduced will provide the educators new curriculum ideas to assist in reaching the NGSS and CORE learning outcomes standards. This STEAM webinar will guide participants through inquiry based learning activities related to Clouds, Phase Change, Light, Water Cycle, Weather and Climate. Students will use authentic data sets and modeling STEAM lessons.

12/6/2016  Webinar: Exploring Evolution  Cornell Lab of Ornithology
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.birdsleuth.org/free-webinars/
Cost  FREE  Stipend:
3:00 PM PST From Darwin’s finches to the Birds-of-Paradise, birds have been a common figure to study diversity and adaptation. Utilizing online interactives from the Bird Academy’s website and BirdSleuth’s Evolution in Paradise lessons, we will explore natural and sexual selection and how it’s contributed to the diversity of birds through behavioral and anatomical adaptations. In this webinar, educators will:
* Tour Bird Academy’s online interactives related to diversity, evolution, and anatomy.
* Discuss implementation and extension opportunities in the classroom.
* Learn the difference between natural and sexual selection and how it influences birds’ appearance and behavior.

For Grades: 5th;6th;7th;8th
https://www.txstate-epdc.net/events/
Cost  FREE  Stipend:
2:00 PM PDT SpaceMath is a two part series designed to help educators make the critical linkage between Mathematics and Science in the classroom. In Part 1 – Linking Math and Science, participants will survey some of the available NASA resources and discuss the use of science as a vehicle for mathematics instruction.

12/6/2016  Webinar: Exploring Evolution  Cornell Lab of Ornithology
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK;TK
http://www.birdsleuth.org/free-webinars/
Cost  FREE  Stipend:
3:30 PM PDT Participants will learn about hands-on standards aligned activities using mass and weight. They will also learn about micro-gravity on-board the International Space Station. This webinar addresses the Next Generation Science Standards ESS1 and ESS2 and Common Core Math Standards.

12/8/2016  Webinar: Don’t Count NASA Out of Your Math Classes: Mass vs Weight  NASA Education
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK;TK
https://www.txstate-epdc.net/events/
Cost  FREE  Stipend:
3:30 PM PDT Participants will learn about hands-on standards aligned activities using mass and weight. They will also learn about micro-gravity on-board the International Space Station. This webinar addresses the Next Generation Science Standards ESS1 and ESS2 and Common Core Math Standards.

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Printed: 10/11/2016  Professional Development
5:00 PM PST From Darwin’s finches to the Birds-of-Paradise, birds have been a common figure to study diversity and adaptation. Utilizing online interactives from the Bird Academy’s website and BirdSleuth’s Evolution in Paradise lessons, we will explore natural and sexual selection and how it’s contributed to the diversity of birds through behavioral and anatomical adaptations. In this webinar, educators will:

* Tour Bird Academy’s online interactives related to diversity, evolution, and anatomy.
* Discuss implementation and extension opportunities in the classroom.
* Learn the difference between natural and sexual selection and how it influences birds’ appearance and behavior.

**12/12/2016 Webinar: Don’t Count NASA Our of Your Math Classes: Scale of Discovery**

**NASA Education**

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

https://www.txstate-epdc.net/events/

**Cost** FREE

**Stipend:**

3:30 PM PDT Participants will learn about hands-on standards aligned activities using scale to create a scroll of the universe exploring the inner planets, outer planets and the asteroid belt. They will also use mathematical conversions and scale to make comparisons of planets and asteroids with various sized fruit while learning about the Dawn and New Horizons. This webinar addresses the Next Generation Science Standards ESS1 and ESS2 and Common Core Math Standards.

**12/12/2016 - 12/13/2016 Geophysical Information for Teachers (GIFT) Workshop**

**American Geophysical Union**

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

http://education.agu.org/education-activities-at-agu-meetings/gift/

**Cost** FREE

**Stipend:**

K-12 and Informal Educators: Register Now for GIFT 2015! Registration is FREE!

To register for the GIFT Workshop, simply register for the AGU Fall Meeting and indicate that you are a K-12 Educator. Then, select the GIFT Workshop (Days 1 and 2 are selected separately). Note that you will have to upload a copy of your teaching credentials or a letter verifying your employment as a K-12 educator in order to complete the registration process.

The 2015 GIFT Workshop will be held on December 14th and 15th in San Francisco, Ca. Check out the six new presentations that will be featured at this year’s meeting. From natural resources to space science to climate change – this year’s GIFT Workshop will continue to cover a spectrum of topics.

**January 2017**

**1/5/2017 Maker Educator Workshop**

**Alameda County Office of Education**

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

http://www.eventbrite.com/o/acoe-core-learning-team-6478769131

**Cost** FREE

**Stipend:**

Maker Ed PD series will strategically will focus on the effective integration of making into core areas. 1st Thursday of each month, 4:30 to 6:30.

Focus areas are:

* Engineering and NGSS in the makerspace (hydroelectric wheel and other challenges)
* Making History: Invention, ingenuity as a driver of history.
* Break to make : finding useful components in e-waste, discard technology, etc, and making new things.
* 3D modeling historical sites. Combining Math, design, and history.
* IoT in the classroom: hack everyday objects with raspberry Pis and coding libraries.
* Game design & physics in Scratch
* DIY Robots
* Virtual Reality and Google Cardboard

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Printed: 10/11/2016
1/7/2017  Tech Challenge Adviser Training  The Tech Museum of Innovation
For Grades:  4th;5th;6th;7th;8th;9th;10th;11th;12th
https://www.thetech.org/thetchallenge/participantevents
Cost  free  Stipend:
Adviser training clinics are designed for advisers, parents and teachers. Training emphasizes support strategies, student safety and examples of open-ended questions, and it offers advice for first-time advisers. Advisers must be at least 18 years old. Only one adviser per team is recommended. Being an adviser is a rewarding experience, and you’ll learn a lot as you support your team through the design process. To learn more about how you can best provide that support, read through our Adviser Guide.
Registration guarantees a space in the training. Walk-ins are welcome if space permits. All sessions are from 1 to 1:45 p.m. at The Tech.

1/10/2017  Webinar: Great Backyard Bird Count  Cornell Lab of Ornithology
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.birdsleuth.org/free-webinars/
Cost  FREE  Stipend:
3:00 PM PST The Great Backyard Bird Count is the perfect starting point for any educator who is interested in getting young learners excited about citizen science and birds! We will give you ideas and introduce you to resources that will encourage students and communities to participate. In this webinar, educators will:
Learn how to participate in the Great Backyard Bird Count.
* Develop basic bird identification skills.
* Discover ways to encourage student curiosity and learning.
* Access free and inexpensive resources that will help you teach science and math.

1/10/2017  Getting Grouded- Mindfulness in the Garden - WCCUSD only  West County DIGS
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th
http://www.westcountyschoolgardens.org/events.html
Cost  FREE  Stipend:  $33 per hour
@ Dover Elementary. January 10 and 24. Must attend both sessions. Sign up through district website

1/12/2017 - 1/14/2017  2017 International Meeting - Des Moines. IA  Association for Science Teacher Education
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. Participants will have the opportunity to attend a wide-range of professional development workshops.

1/17/2017  Webinar: Great Backyard Bird Count  Cornell Lab of Ornithology
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.birdsleuth.org/free-webinars/
Cost  FREE  Stipend:
5:00 PM PST The Great Backyard Bird Count is the perfect starting point for any educator who is interested in getting young learners excited about citizen science and birds! We will give you ideas and introduce you to resources that will encourage students and communities to participate. In this webinar, educators will:
Learn how to participate in the Great Backyard Bird Count.
* Develop basic bird identification skills.
* Discover ways to encourage student curiosity and learning.
* Access free and inexpensive resources that will help you teach science and math.
1/21/2017  Into the Redwood Forest- Teacher Workshop  Muir Woods National Monument
For Grades:  3rd;4th
https://www.nps.gov/goga/learn/education/elementary.htm
Cost  FREE
Stipend:
In order to participate in the free Park as Classroom field trips you must take one of their introductory classes.

1/21/2017  Raspberry Pi Basics with TechShop San Jose  The Tech Museum of Innovation
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.thetech.org/educators/workshops-events
Cost  $75 per person (materials included)
Stipend:
(9 a.m. to noon ) This class is the first step in using a Raspberry Pi. Participants will learn basic architecture, hardware, software and setup, as well as common use functions throughout the GUI and command line. Raspberry Pi is an inexpensive, richly capable single board computer (SBC) designed for educational settings and excellent for a wide range of hobby activities. Featuring a modest speed ARM processor and a half gigabyte of RAM, it has interfaces for flash SD, USB, ethernet, HDMI graphics, audio, LCD panels, digital cameras, and direct digital I/O. Space is limited.

1/21/2017  Tech Challenge Adviser Training  The Tech Museum of Innovation
For Grades:  4th;5th;6th;7th;8th;9th;10th;11th;12th
https://www.thetech.org/thetechchallenge/participateevents
Cost  free
Stipend:
Adviser training clinics are designed for advisers, parents and teachers. Training emphasizes support strategies, student safety and examples of open-ended questions, and it offers advice for first-time advisers. Advisers must be at least 18 years old. Only one adviser per team is recommended. Being an adviser is a rewarding experience, and you’ll learn a lot as you support your team through the design process. To learn more about how you can best provide that support, read through our Adviser Guide. Registration guarantees a space in the training. Walk-ins are welcome if space permits. All sessions are from 1 to 1:45 p.m. at The Tech.

1/21/2017 - 1/22/2017  Wilderness First Aid  Bay Area Wilderness Training
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.bawt.org/programs/training/wilderness-medicine/wilderness-first-aid/
Cost  $195
Stipend:
This highly experiential 16-hour class is for anyone who wants to learn how to handle emergency medical situations in the backcountry. It covers basic wilderness first aid topics such as: patient assessment, shock and bleeding, head and spinal injuries, wounds, heat and cold illnesses and much more. Wilderness First Aid certification from Foster Calm available after successful completion of the course and wilderness exam.

1/28/2017  Camping at the Presidio Training - 1-day  Bay Area Wilderness Training
For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.bawt.org/programs/training/leadership-training/camping-at-the-presidio/
Cost  $45
Stipend:
(1-day Sat. training for WLT/FLT Alumni) The CAP Leadership Training is designed to provide group leaders with the skills and resources to plan and lead a youth camping trip in the Presidio and beyond. During the two-day, one-night training session, group leaders acquire technical camping skills and become familiar with the Presidio’s natural and cultural resources. They are trained to lead place-based nature hikes and other outdoor activities as well as learn about the process for reserving a camping trip through the CAP program. After participants complete the CAP Leadership Training program, they can begin to prepare for their camping trip to the Presidio's Rob Hill Campground.

February 2017

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed:  10/11/2016  Professional Development
Maker Educator Workshop

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.eventbrite.com/o/acoe-core-learning-team-6478769131

Cost: FREE  
Stipend:

Maker Ed PD series will strategically will focus on the effective integration of making into core areas. 1st Thursday of each month, 4:30 to 6:30.

Focus areas are:
* Engineering and NGSS in the makerspace (hydroelectric wheel and other challenges)
* Making History: Invention, ingenuity as a driver of history.
* Break to make: finding useful components in e-waste, discard technology, etc, and making new things.
* 3D modeling historical sites. Combining Math, design, and history.
* IoT in the classroom: hack everyday objects with raspberry Pis and coding libraries.
* Game design & physics in Scratch
* DIY Robots
* Virtual Reality and Google Cardboard

Tech Challenge Adviser Training

For Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th
https://www.thetech.org/thetechchallenge/participantevents

Cost: free  
Stipend:

Adviser training clinics are designed for advisers, parents and teachers. Training emphasizes support strategies, student safety and examples of open-ended questions, and it offers advice for first-time advisers. Advisers must be at least 18 years old. Only one adviser per team is recommended. Being an adviser is a rewarding experience, and you’ll learn a lot as you support your team through the design process. To learn more about how you can best provide that support, read through our Adviser Guide.

Registration guarantees a space in the training. Walk-ins are welcome if space permits. All sessions are from 1 to 1:45 p.m. at The Tech.

Introduction to the NGSS

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

Cost: $20  
Stipend:

9:30 am - 4:00 pm. - How will science education be transformed by the Next Generation Science Standards (NGSS)? Dive into the Framework for K-12 Education to discover the principles underlying the NGSS. Gain experience with the scientific practices, cross-cutting concepts, and disciplinary core ideas that comprise the new framework, and learn how to read those NGSS tables! This beginner’s-level overview will give you the tools and confidence to start preparing for the new standards.

FEAST - Fun Exchanges & Activities for Science Teachers

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

Cost: FREE  
Stipend:

The Body – Human Anatomy

23rd Annual Space Exploration Educators Conference

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://spacecenter.org/teacher-programs/teachers-seec/

Cost: $279  
Stipend:

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Printed: 10/11/2016  Professional Development
At Space Center Houston - This conference is for Grades K-12 – and not just for science teachers! Space Center Houston strives to use space to teach across the curriculum. The activities presented can be used for science, language arts, mathematics, history, and more!

Space Center Houston is proud to continue offering the educational opportunity of a lifetime! Experience three days of complete submersion into the out-of-this world adventure of space exploration! Attend sessions hosted by the actual scientists and engineers working on these exciting endeavors including the International Space Station, Mars exploration, and the planets beyond. Hear from the astronauts leading the charge in exploration! Come learn about the bold vision to send humans back to the Moon and off to Mars! Attend sessions presented by educators and receive ready to implement classroom ideas and experience minds-on, hands-on fun! Network with fellow educators, take back a multitude of cross curriculum ideas and activities and earn 24 hours of Continuing Professional Education credit.

### 2/13/2017 - 2/14/2017

**Discover Design Thinking Workshop**  
Stanford University

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
[https://docs.google.com/forms/d/e/1FAIpQLScYpHBc_Nt7QT_LIbBYyPEnhe5XILgQFQKhQz9jOPmcGzvCQ/viewform](https://docs.google.com/forms/d/e/1FAIpQLScYpHBc_Nt7QT_LIbBYyPEnhe5XILgQFQKhQz9jOPmcGzvCQ/viewform)

Cost: FREE  
Stipend:

This introductory workshop is a 2-day deep dive into design thinking igniting the creative confidence in educators. Participants will have the opportunity to build their design thinking skills, connect with like-minded educators, and become part of the K12 Lab Network community. Every applicant is asked to apply with at least one collaborator from his/her school site and each individual must complete his/her own application. There is no cost to those admitted, but you must pay your own transportation and lodging. Breakfast and lunch are included both days.

### 2/15/2017

**Webinar: Supporting Student Investigations**  
Cornell Lab of Ornithology

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

Cost: FREE  
Stipend:

3:00 PM PST Scientists are curious. Designing experiments and interpreting complex data is the foundation all scientists have. Fortunately these are skills your students can develop! Students can even share their findings in our student publication magazine BirdSleuth Investigator just like a real scientists would. In this webinar, educators will:

* Learn the factors of a fair experiment.
* Discover common mistakes with data interpretation and visualization.
* Explore opportunities for students to share their projects with their classmates, communities, and the educational community.

### 2/16/2017

**Webinar: Supporting Student Investigations**  
Cornell Lab of Ornithology

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

Cost: FREE  
Stipend:

5:00 PM PST Scientists are curious. Designing experiments and interpreting complex data is the foundation all scientists have. Fortunately these are skills your students can develop! Students can even share their findings in our student publication magazine BirdSleuth Investigator just like a real scientists would. In this webinar, educators will:

* Learn the factors of a fair experiment.
* Discover common mistakes with data interpretation and visualization.
* Explore opportunities for students to share their projects with their classmates, communities, and the educational community.

### 2/17/2017 - 2/18/2017

**2017 Physics Teacher Education Conference - Atlanta**  
Physics Teacher Education Coalition

For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th  
[http://www.phystec.org/conferences/](http://www.phystec.org/conferences/)

Cost: ?  
Stipend:

February 17, 2017 - February 18, 2017 in Atlanta, Georgia at the Hyatt Regency Atlanta. The Physics Teacher Education Coalitions Annual Conference is the nation’s largest meeting dedicated to the education of future physics teachers - featuring workshops on best practices, panel discussions by national leaders as well as excellent networking opportunities for physics teacher educators.

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Printed: 10/11/2016  
Professional Development
2/25/2017  Arduino Part 1: Building an Arduino with TechShop San Jose

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

Cost  $75 per person (materials included)  Stipend:

(9 a.m. to noon) Learn how you can use an Arduino in your classroom. Arduino is a microcontroller — a small computer with a single function plus a cornucopia of add-on boards with functions like GPS, WiFi and card readers. With Arduino, classroom possibilities are endless! An Arduino can be programmed to monitor sensors and watch for inputs like temperature, pressure, light, voltage or a button or switch. You can even incorporate programming to control switches, relays, motors and other outputs. Educators will gain basic skills and knowledge that can be easily scaled across grade levels and subjects. This workshop will teach participants the first step in using the Arduino: soldering the parts onto the circuit board. Come to class with some basic soldering experience and get help and guidance while assembling the board. See our webpage for more soldering workshops! Materials fee includes an Arduino Educato.

2/25/2017

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

Cost  not posted yet  Stipend:

CSA is pleased to announce that CitSci2017 will be hosted in a city increasingly known as a hub for citizen science: Raleigh, North Carolina (USA)! Raleigh is the epicenter of many cutting-edge citizen science initiatives that involve multi-museum partnerships (eMammal International, Neighborhood Nestwatch), museum-university partnerships (Belly Button Biodiversity, Arthropods of Our Homes, and Cat Tracker as parts of Your Wild Life), and innovative ways to bring citizen science into classrooms (NSF-funded Students Discover grant). As well, the Museum’s nearby Prairie Ridge Ecostation is a testing, demonstration and training site for many other citizen science projects (e.g. Dragonfly Detectives). 2017 Conference hosts include the North Carolina Museum of Natural Sciences and the Office of Public Science in the College of Sciences at North Carolina State University in collaboration with the Greater Raleigh Visitors and Convention Bureau.

2/25/2017 - 2/26/2017  Camping at the Presidio Training
2/25/2017

For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.bawt.org/programs/training/leadership-training/camping-at-the-presidio/

Cost  $45  Stipend:

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

By Arrangement at Your School or Available Ongoing on Your Own

By Arrangement

Your Own Design or Pick one of their topics
Banana Slug String Band
http://www.bananaslugstringband.com/pages/workshops.html
Banana Slug String Band will collaborate with you to develop a workshop that fits your needs by combining concepts, songs and strategies from a wide range of material. Already Designed Workshops: Dirt Made my Lunch, Sun, Soil, Water, & Air, Feathers, Fur, Scales, & Skin

Teach the Teachers - How to use the Bay Model with Your Class
Bay Model Visitor Center
http://www.spn.usace.army.mil/Missions/Recreation/BayModelVisitorCenter.aspx
Your personal tour is available year round to any teacher or group of teachers that want to conduct their own guided tours of the Bay Model for their students. Ranger Linda M. Holm will personally give a tour of the facility as if I was conducting an educational program for their class. It will be grade and subject specific based on the teacher’s requests. Teachers can call 415-289-3007 to set up an appointment to meet with Ranger Linda. Hours: Tuesday through Saturday 9AM - 1:30 PM.

Project WILD and Project Aquatic Wild
CA Dept of Fish and Wildlife, Central Coast Region
http://www.dfg.ca.gov/
Project WILD is a wildlife-based conservation and environmental education program that fosters responsible actions toward wildlife and related natural resources. Project WILD Activity Guides provide curriculum especially designed for educators of kindergarten through high school youth. Professional development training and educational materials are available through workshop participation. Project WILD core materials include three activity guides for educators: the Project WILD K-12 Activity Guide highlights wildlife and habitat, Project WILD Aquatic Education Activity Guide emphasizes aquatic wildlife and aquatic ecosystems, Science and Civics: Sustaining Wildlife for grade 9-12 involves inquiry investigations and decisions affecting people, wildlife and their shared habitat.

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

Whole School Science Professional Development
Community Resources for Science
http://www.crscience.org/educators/workshops
CRS workshops are designed to help build knowledge, skills and confidence in science teaching. Our workshops provide teachers with techniques, resource connections, tools, and planning time. Workshops are offered to both teacher groups of ten or more and whole faculties. Whole-school workshops are offered on-site to let faculties work together as a school community to accomplish their science goals and understand student learning. We support the development of teachers who are able to plan, teach, and refine strong, subject-integrated science lessons using an inquiry-based approach to their teaching and their own professional development.

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

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

Printed: 10/6/2016
Environmental Education Services
http://www.kidsforthebay.org

Kids for the Bay

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

Common Core & FOSS: Building ELA Skills through Active Science

Lawrence Hall of Science

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

Customized Workshop
http://www.lifelab.org

Life Lab Science Program

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

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

Marine Science Institute

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

RAFT Outreach Workshops
http://www.raft.net

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

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

Rock-It Science

Teachers, learn to do Rock-it Science lessons yourself. Our group experiments also make great team building/diversity training activities. We’ll customize a program to suit your needs. Pick from a wide variety of Physical Science topics (Matter, Energy, Chemistry, Force and Motion, Simple Machines, Electricity). Maximum: 40 teachers Price:$1000 for 3 hours

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

StopWaste.org

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

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

Printed: 10/6/2016  Bring Professional Development to your School
Teacher Trainings
http://www.treefrogtreks.com/
educational seminars led by Tree Frog Treks' Head Frog and Executive Director Chris Giorni, who has more than 15 years of experience in teaching science to kids of all ages. We'll engage teachers by demonstrating experiments and projects from Tree Frog Treks' curriculum, which focuses on experiential, hands-on science learning. We'll cover a broad range of topics in the life sciences (plants, animals and nature; recycling and decomposition; conservation biology), the physical sciences (simple machines; chemical reactions; states of matter) and earth sciences (geology of the earth; living in a sustainable world) plus many more. In our trainings, teachers can develop projects to suit different curriculum, try out our experiments, and learn hands-on make-and-take classroom projects. Every faculty in-service, from one hour to a full day, includes written Tree Frog Treks curriculum.

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

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

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

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

Web Based Professional Development
Heinemann
Heinemann's webinar content is developed to help educators meet curricular standards. Live webinars deliver superior PD with no travel costs, and participants interact directly with our authors and consultants on crucial topics to enhance expertise.
* Heinemann's webinars offer a user-friendly, convenient format and the option for educators to gather as a group at school or to participate individually from home.
* Typical webinar series consist of five clock hours of streaming webcast including live discussion with the presenter, video demonstrations, presentation materials, and access to archived recordings.
Edspace
http://education.kqed.org/edspace/
This blog from KQED has posts of great information to take straight to your classroom. Online self-paced tutorials. Lesson ideas and more. Search the blog for the topics of your choice.

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

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

Online Courses for Educators in the Sciences
www.scienceteacher.org
Educators can access electronic teacher resources, discuss issues with other educators online, and participate in high-quality graduate courses all from convenient home or work locations via the Internet. An average of 15 online graduate level science and science education courses are available each semester. NTEN courses are designed to help teachers improve and enhance their understanding of science content. Courses can be taken for professional development or as part of a graduate degree program.

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

Rock-it Science Teacher Community
http://rockitscience.com/teachercommunity/
This online community is for adventurous teachers and homeschool parents who want to teach science the Rock-it Science way. Registration is FREE. As a registered member of our Teacher Community, you can:
* Read introductory Teacher’s Guide, "How to Present a Rock-it Science Lesson".
* View our Lesson Videos. See the lessons as they were presented in our laboratory classroom with hands-on experiments.
* Download the corresponding Teacher Guides, which contain a complete transcript of the video, photos, an equipment list, and Quick Reference Guides.
* View our Teacher Workshop videos, where adults get to experience our lessons exactly the way students do, including the crazy stories and hands-on experiments. But they also get to ask questions about the equipment and materials, discuss any concerns they may have about how their own students might respond to the lesson, and get ideas about how to present the lessons themselves.
* Read Mr. Mac’s Blog
* Get answers to your questions and share ideas with other teachers in our Teacher Support Forum.

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

We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org
Printed: 10/6/2016 Bring Professional Development to your School
Teacher Grants: Specific Deadlines

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

October 2016

10/15/2016  The Lorrie Otto Seeds for Education Grant Program
http://www.wildones.org/seeds-for-education/sfe/
Wild Ones
up to $500 to purchase native plants
The Lorrie Otto Seeds for Education Grant Program gives small monetary grants to schools, nature centers, and other non-profit and not-for-profit places of learning in the United States, including houses of worship, with a site available for a stewardship project.

10/15/2016  Student Achievement Grants
http://www.neafoundation.org/pages/nea-student-achievement-grants/
The NEA Foundation
$2000 or $5000
Proposed work should engage students in critical thinking and problem solving that deepen their knowledge of standards-based subject matter, and should also improve students' habits of inquiry, self-directed learning, and critical reflection. Proposals for work resulting in low-income and minority student success with honors, advanced placement, or other challenging curricula are particularly encouraged.

10/15/2016  Learning & Leadership Grants
http://www.neafoundation.org/pages/learning-leadership-grants/
The NEA Foundation
$2000-5000
Grant support public school teachers, public education support professionals, and/or faculty and staff in public institutions of higher education for one of the following two 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.

10/15/2016  Youth Creativity Grants
http://bit.ly/1v5rDYq
LEGO Children's Fund
$500-$5000
Areas of support: 1) Early childhood education and development that is directly related to creativity. 2) Technology and communication projects that advance learning opportunities. Awarded quarterly.

10/31/2016  Grants for K–12 Schools
https://www.natureworkseverywhere.org/#grants
The Nature Conservancy
$2000
grants to support projects that implement green infrastructure to address local environmental challenges. These include access to healthy food, air quality, heat island effect, climate change, or storm water collection. Young people will work as social innovators to help their communities through project design and implementation. A $2,000 grant will be awarded to 55 schools.

10/31/2016  Literacy for Life Grants
http://learnaboutag.org/grants/life.cfm
California Foundation for Agriculture in the Classroom
$500
The Literacy for Life grants, sponsored by the Oreggia Family Foundation, are designed to help initiate new projects or expand existing ones that promote agricultural literacy. Grants of up to $500 are provided to California K-12 educators to support the integration of agriculture into regular classroom instruction. Supports projects, field trips, school gardens

10/31/2016  US School Garden Grant
https://www.wholekidsfoundation.org/schools/programs/school-garden-grant-program
Whole Kids Foundation
$2000
the School Garden Grant program provides a $2,000 monetary grant to support an edible educational garden on the grounds of a K-12 school. Schools, or a non-profit organization working in partnership with a school, may apply.

November 2016

11/1/2016  Environmental Education Grants
http://www.thelawrencefoundation.org/grants/
The Lawrence Foundation
$5000
Grants to support environmental, education, human services and other causes. Interests are diverse and may lead into other areas on an occasional basis.

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11/1/2016  Annie's Grants for Gardens - applications open  Annie's Homegrown
http://www.annies.com/giving-back/school-gardens/grants-for-gardens
$250
A limited number of small grants to community gardens, school gardens and other educational programs that connect children directly to gardening. Funds can be used to buy gardening tools, seeds or other needed supplies. Focus is on giving to programs that meet the following guidelines:
**Only to schools and non-profit organizations located within the United States.** Grants are only available to groups that focus on School and Community Gardens or Sustainable Agriculture.
**Annie’s does not make grants or donations to individuals, athletic teams or events, or health fairs.

11/1/2016  Whale Tail Grants Program  California Coastal Commission, Public Education Program
http://www.coastal.ca.gov/publiced/plate/plgrant.html
$500-$50,000
* This program supports marine science education and projects encouraging people to value and take action to improve the health of California’s marine and coastal environments.
* This year there is a special subcategory for projects addressing climate change and/or ocean acidification.
* Emphasis is on reaching underserved students or members of the public.

11/10/2016  The Max and Victoria Dreyfus Foundation Grant  The Max and Victoria Dreyfus Foundation
http://www.mvdreyfusfoundation.org/#/application-guidelines
$1,000 to $20,000
The Foundation will consider requests to support museums, cultural, and performing arts programs; schools, hospitals, educational and skills training programs, programs for youth, seniors, and the handicapped; environmental and wildlife protection activities; and other community-based organizations and their programs.

11/11/2016  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. Also, start a project profile on www.rootsandshoots.org.

11/15/2016  Fuel Your Schools Grant  Chevron
http://www.fueleyschools.com/
up to $1000
Chevron is working with DonorsChoose.org again this year to help K-12 teachers in public schools get the supplies they need for eligible public school classroom projects. What do your students need? Microscopes, art supplies, books…post your project request now! The time period for submissions on DonorsChoose.org is September 1, 2016, to November 15, 2016. Don’t wait—because the earlier you post your project during the submission period, the better your chance will be to receive funding.

11/16/2016  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.

11/17/2016  Albert Einstein Distinguished Educator Fellowship - Deadline  Einstein Fellowship
http://science.energy.gov/wdts/einstein/
$7000/month in stipend and housing expenses
Einstein Fellows usually spend a school year in a professional staff position in the U.S. Senate or House of Representatives, at the Department of Energy (DOE), or at other federal agencies such as the National Aeronautics and Space Administration (NASA), the National Science Foundation (NSF), or the National Institute of Standards and Technology (NIST).

11/18/2016  Educator Grants  Air Force Association
http://www.afa.org/AFA/InformationFor/Teachers/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.

11/19/2016  FREE lab supplies - BIO-LINK Depot  City College of San Francisco
http://biolinkdepot.org/index.php/get-supplies/
FREE equipment
10AM-2 PM - Lab equipment give away for middle and high schools. Lots of great equipment, but you need to follow the rules. Don’t forget to read their website.

December 2016

12/1/2016  The Bauder Endowment for the Support of Physics Teaching  American Association of Physics Teachers
http://www.aapt.org/Programs/grants/bauderfund.cfm
$500
Supports activities for AAPT members, such as workshops at the local level, that promote physics education utilizing physics apparatus. Funds can purchase equipment and materials used by participants in the workshop. Does not reimburse indirect or administrative costs.

We’re here to help you find the science resources you’re looking for. Email us at CRS@crscience.org
12/1/2016 Fulbright Distinguished Awards in Teaching Program

http://www.fulbrightteacherexchange.org/

The Distinguished Fulbright Awards in Teaching Program is designed to recognize and encourage excellence in teaching in the U.S. and abroad. 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.

12/1/2016 Educator Achievement Award


AIAA Foundation

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

12/15/2016 Numerous Teaching Awards

http://www.nsta.org/about/awards.aspx

NSTA offers about 20 awards for teachers of science from grades Kindergarten through college. Please check out their website for more details on the awards. All are due November 30.

12/23/2016 Green Ribbon Schools Award Program

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

California Department of Education

The U.S. Department of Education's Green Ribbon Schools (ED-GRS) recognition award 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. If your school or district is selected as a California nominee, CDE staff will work with you to submit the nominee presentation form and package to ED for consideration.

12/31/2016 Katie's Krops Grant

http://katieskrops.com/start-a-garden.html

Katie's Krops

$500 gift card and digital camera

Once a year, Katie's Krops hosts a grant cycle for youth, ages 9 to 16, to win a grant to start a Katie's Krops vegetable garden in their community, where the whole harvest is donated to people in need. A child, or a group of children, can apply as long as they fall within the age range of 9 to 16 and live in the United States. We are a youth based initiative. All Katie's Krops are grown by kids. Grantees are awarded a gift card to a garden center of their choice in their area, have support from Katie’s Krops, and are given a digital camera to document the garden and the harvest.

12/31/2016 Win a DK Makerspace Kit

http://www.dk.com/us/win-makerspace/

DK Multimedia

$550 in materials

Enter for a chance to win one of fifty (50) prizes, each including a “Makey Makey™” Makerspace Classic Kit for your classroom or library STEM education; a $300.00 gift card for buying makerspace supplies; and a library of DK books. Total Approximate Retail Value = $550.00 each prize. NO PURCHASE NECESSARY. Enter between 12:01 PM (Eastern Time) on June 1, 2016, and 11:59 PM (Eastern Time) on December 31, 2016.

12/31/2016 Community Grant Program

http://foundation.walmart.com/apply-for-grants/local-giving

Walmart Foundation

$250 - $2,500

The Walmart Foundation supports local, state and national organizations that provide opportunities for individuals and families to live better. Grants range from $250 - $2,500. Walmart and the Walmart Foundation have identified four core areas of giving: Hunger Relief & Healthy Eating, Sustainability, Women's Economic Empowerment and Career Opportunity. To ensure that your application has the best chance of being funded, the proposed use of the grant should fit within one of these areas of giving.

January 2017

1/6/2017 Shell Science Teaching Award

http://www.nsta.org/about/awards.aspx

National Science Teachers Association

$10,000 and Expenses to attend NSTA conference

Award recognizes one outstanding classroom science teacher (K–12) who has had a positive impact on his or her students, school, and community through exemplary classroom science teaching. Award: $10,000 and a paid trip to attend NSTA's National Conference; two finalists will also receive paid trips to the conference.
## Roots & Shoots Community Campaign Mini-Grants

**Roots and Shoots**

- **Title:** Roots & Shoots Community Campaign Mini-Grants
- **Website:** [http://www.rootsandshoots.org/minigrant](http://www.rootsandshoots.org/minigrant)
- **Deadline:** 1/20/2017

**Description:**
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. Also, start a project profile on www.rootsandshoots.org.

**Amount:** $200

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## FREE lab supplies - BIO-LINK Depot

**City College of San Francisco**

- **Title:** FREE lab supplies - BIO-LINK Depot
- **Website:** [http://biolinkdepot.org/index.php/get-supplies/](http://biolinkdepot.org/index.php/get-supplies/)
- **Deadline:** 1/21/2017

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

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## Fund for Teachers Grants

**Fund for Teachers**

- **Title:** Fund for Teachers Grants
- **Website:** [http://www.fundforteachers.org/apply/california.php](http://www.fundforteachers.org/apply/california.php)
- **Deadline:** 1/31/2017

**Description:**
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.

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## February 2017

### 2/1/2017

- **Title:** American Honda Foundation Grant
- **Website:** [http://www.honda.com/community/applying-for-a-grant](http://www.honda.com/community/applying-for-a-grant)

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

**Amount:** $20,000-75,000

### 2/6/2017

- **Title:** ExploraVision K-12 student competition
- **Website:** [http://www.exploravision.org/](http://www.exploravision.org/)

**Description:**
The Toshiba/NSTA ExploraVision science competition encourages K – 12 students to imagine what technology might be like in the future. ExploraVision helps teacher sponsors meet many of the National Science Education Standards while letting students experience scientific process and discovery in an engaging, hands-on way. Let's empower the next generation of inventors, scientists and leaders.

**Amount:** $10,000 grand prize, many more smaller prizes

### 2/6/2017

- **Title:** Bright Schools Competition - Deadline
- **Website:** [http://brightschoolscompetition.org/](http://brightschoolscompetition.org/)

**Description:**
The goal of the Bright Schools program is to create a learning experience that will help students, parents and teachers better understand the link between light, sleep and student health and performance. Through the Bright Schools competition, students in grades 6-8 will select a topic related to light and sleep and select one of three exploration options (developing a prototype, creating an awareness campaign or writing a research proposal) to create an original project. The National Sleep Foundation is dedicated to improving health and well-being through sleep education and advocacy. With the help of the National Science Teachers Association, the Bright Schools Competition will give students the opportunity to participate in an enduring Science Technology Engineering and Math (STEM) experience.

**Amount:** Gift to %3000

### 2/12/2017

- **Title:** AIAA Classroom Grants

**Description:**
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.

**Amount:** $250
## Teacher Grants: Rolling or Continuous Deadlines

<table>
<thead>
<tr>
<th>Teacher wishlist</th>
<th>Adopt-A-Classroom Grants</th>
<th>Adopt-A-Classroom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Register your classroom online. This site pairs you with people who want to give money to your classroom to purchase supplies. Is not project based.</td>
<td><a href="http://www.adoptaclassroom.org">http://www.adoptaclassroom.org</a></td>
<td></td>
</tr>
<tr>
<td>$10,000+</td>
<td>Amgen Foundation Grant</td>
<td>Amgen Foundation</td>
</tr>
<tr>
<td><a href="http://wwwext.amgen.com/citizenship/apply_for_grant.html">http://wwwext.amgen.com/citizenship/apply_for_grant.html</a></td>
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<tr>
<td>The areas given priority consideration within science education are: * Teacher quality and professional development in math and science: Comprehensive programs that enhance the quality of math and science teachers entering the classroom, and support teachers with meaningful professional development opportunities that have a positive impact on student achievement * Pivotal hands-on science experience: Support programs that provide students and teachers with opportunities for hands-on, inquiry-based learning experiences that significantly impact students' excitement about science and scientific careers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approximate value - $1000</td>
<td>Amy Chamberlain Scholarship Fund</td>
<td>Bay Area Wilderness Training</td>
</tr>
<tr>
<td>Each scholarship provides full tuition to BAWT’s Wilderness Leadership Training (WLT), as well as additional post-course support including site visits by BAWT staff during the 12 months following WLT participation. Must apply one month prior to the class you desire to take.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Varies</td>
<td>Friends &amp; Family Grants - BERKELEY Schools only</td>
<td>Berkeley Public Schools Fund</td>
</tr>
<tr>
<td>This crowd-funding platform allows teachers to submit grant applications to fund new projects, materials, or equipment anytime throughout the year. Anyone can donate to a grant, and the site is searchable by teacher, school, and subject area. * Similar to DonorsChoose but with fewer barriers for funding and exclusively for Berkeley teachers * Administered by the Schools Fund, but projects are funded by community donors through crowdfunding * Share grants quickly and easily through email, Facebook, or Twitter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Discount bus rental rate</td>
<td>Black Tie Community Bus</td>
<td>Black Tie Transportation</td>
</tr>
<tr>
<td>Bus is offered to non-profit organizations and to schools to transport children ages K-12 for school outings. The bus is available at a discounted rate to those who apply in advance and meet the requirements of the application process. Seating: Grades K-4, 60 passengers (3 adults required) Grades 5-12, 42 passengers (2 adults required) Rates // $75.00 per hr (5 hour min.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$2500</td>
<td>California Casualty Academic Award</td>
<td>California Casualty</td>
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<tr>
<td>Enter to win $2500 to cover your out of pocket expenses</td>
<td></td>
<td></td>
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<tr>
<td>$1500 plus design services</td>
<td>Native Garden Design Grants</td>
<td>California Native Garden Foundation</td>
</tr>
<tr>
<td>Types of support include garden design services, in-kind donations of plants and landscape materials, volunteer assistance, and direct financial assistance. A typical grant cycle is about 5 months. Grant amounts are limited to $1,000 for in-kind assistance, $500 in direct cash assistance, and $5,000 for design services. Each grant recipient becomes a Partner School in the ELSEE Garden Project. What does a Partner School get? * Access to in-kind donations, such as plants and landscape materials * Lesson plans to use in your school native garden</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Printed: 9/29/2016
Children's Creativity Museum

**Free Field Trips**

http://www.creativity.org/programs/school-fieldtrip-fee-waiver-request

The Children's Creativity Museum in San Francisco is committed to making their innovative programs accessible for all students. Reduced-rated and fee-waived programs for CA Title 1 and qualifying schools are now available for the 2016-17 school year.

**Computers for Learning**

http://computersforlearning.gov/

Schools register and request equipment on the Computers for Learning website. 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**

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

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

**Yellow School Bus Transportation Fund**

http://www.ebparks.org/activities/educators/trips#parkex

Discounted bus ($110) for fieldtrips to East Bay Regional Parks. Schools must have at least 50% of students in Free or Reduced Lunch Program. 40 passengers minimum. They start making assignments in December for the coming year. Apply ASAP even for programs in fall. Need not have naturalist program pre-arranged. They will help coordinate with naturalist program.

**Environmental Volunteers**

http://www.evols.org/transportation-fund-2016

Up to $500 Transportation Fund

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Printed: 9/29/2016  
Teacher Grants - Rolling Deadlines
For San Francisco Bay Area schools - Science-based field trip destination in San Francisco Bay Area (for
overnight field trips, only one day of the trip or one direction will be eligible for reimbursement). Applications are
only online and reimbursement forms must be submitted in addition to invoices after the field trip has occurred.
Eligible applicants are teachers and educators associated with the applying school.
* For schools with 70% FRPM or greater, the maximum subsidy is $500 per bus.
* For schools with 40-69% FRPM, the fund will pay up to the percentage of your FRPM (e.g. a school with a
50% FRPM will get a subsidy of 50% of bus costs up to a maximum of $250 per bus).
* For youth-serving organizations (e.g. an after-school program serving a community with 70% FRPM or
greater), the maximum subsidy is $500 per bus.

Free Admission

Free Admission to CA Title 1 Schools

http://www.exploratorium.edu/visit/field-trips
Free admission to provided to all CA Title 1 schools.

$100 to $500

Funds for Outdoor Field Trips

http://www.fieldtripgroup.org/for_teachers.html
Update Fall 2016 Not Funding new schools but continuing to fund schools they have already given grants to.
Grants for outdoor environmental education field trips for grades 3 - 5. Grants are provided to teachers in Bay
Area schools with a majority of low-income students. Grants range from $100 to $500, but exceptional grants
may be approved up to $1000. Grants with a lower cost per student will be more favorably evaluated. Can be
used for program or bus fees.

Varies

Education Grant Database

http://www.grantwrangler.com/
Check out this website for all types of grants for classrooms

Free Admission

and Transportation

Free Monday Field Trips and Transportation Grants

http://www.hiller.org/mondays_at_the_museum.shtml
Visit the Hiller Aviation Museum with your students at no charge during Mondays at the Museum, with
transportation reimbursement also available for qualified low-income schools (at least 40% of students qualified
to receive free or reduced price meals). Explore the science of flight with over 50 different historic aircraft,
interactive exhibits, and engaging NGSS-aligned hands-on programs for students Grades K-12.

$250 to $1,000

Youth Microgrant Program

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

$1000-$5000

Education Grants

http://www.kindermorgan.com/community/km_foundation_guidelines.cfm
Due the 10th of each month. Academic programs, including tutoring; Arts education programs; Environmental
education programs that work with local schools and meet curriculum standards

$500?

My Macy’s District Grants and Event Sponsorships

http://www.federated-fds.com/community/grant-information/district-grants/instructions.aspx
Focus areas are arts and culture, education, the environment, HIV/AIDS and women’s issues. Program and
event support.

Bus Transportation Scholarship - Oakland & Richmond

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

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

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

Discounted admission to Oakland Museum

Discounted or free programs

Zoo-to-Community Discounts for Programs

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.

Up to $150

Classroom Grant

Pets in the Classroom

Up to $2500 easy grant process

Classroom Grants

Philanthropic Ventures Foundation

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

$1000 for fieldtrips

Excursion Grant - Alameda, San Mateo & SF Counties

Philanthropic Ventures Foundation

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

Up to $500

Science Grant - Alameda & San Mateo Counties

Philanthropic Ventures Foundation

Who: Any public school teacher, K-12, in Alameda or Contra Costa county is eligible to apply. A maximum of two grants will be awarded to a school. What: Grants of up to $500 will be awarded to teachers to enhance their classroom science programs relating to conservation. Requests may be for educational field trips, classroom science materials, classroom science presentations, or professional development. Examples: projects and fieldtrips related to the study of wetland and creek restoration, renewable energy, recycling, environmental problems, watershed pollution, and the protection of ecological systems, habitats and species.

Up to $2500

After School Grant Program - Oakland Schools

Philanthropic Ventures Foundation

Who: Alum Rock, East Side Union High, Franklin-McKinley, Oakland and Redwood City school district teachers grades 6-12th are eligible to apply. There is a limit of two grants per school each school year. Teachers are encouraged to come up with new ideas for after school programs. Grants up to $2,500 are available to cover costs of equipment, teacher time, and/or refreshments.

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9/29/2016

Printed: Teacher Grants - Rolling Deadlines

Point Bonita YMCA

Get to the Coast discount

https://docs.google.com/forms/d/1JII-DSgYDOrjbs5pYLWRxbCzeO24Zu6xikzL Kw7B0/viewform

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

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

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

Varies
Grants for Teachers
http://grants4teachers.com/
Database of education grants of all types and amounts.

Varies
Environmental Education Grants
http://www.cedartreefound.org/
The Cedar Tree Foundation makes grants for environmental education, environmental health, and sustainable agriculture. Particular consideration is given to proposals demonstrating strong elements of environmental justice and/or conservation. The foundation does not accept unsolicited proposals; however, it does welcome letters of inquiry and responds to those it might like to pursue further.

12-20 trees plus planting and more
The Fruit Tree Planting Foundation-Fruit Tree 101
http://www.ftpf.org/fruitree101.htm
This program of The Fruit Tree Planting Foundation brings fruit tree orchards to schoolyards, so students can make a positive environmental impact at their school, while creating a source of tasty snacks for decades to come. Orchard donations involve, on average, a 12-20 tree minimum (we do not currently offer single trees) to public or nonprofit schools. The trees, materials, orchard installation design work, and onsite environmental curriculum with students are all donated, free of charge for the benefit of the school and its students.

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

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

$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

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

Printed: 9/29/2016 Teacher Grants - Rolling Deadlines
American Chemical Society

National Chemistry Week - October 16 to 22
http://www.acs.org/content/acs/en/education/outreach/ncw.html
The NCW 2016 theme is “Solving Mysteries Through Chemistry”, focusing on the chemistry of forensics and more.

Bay Area Discovery Museum

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

Bay Area Science

Bay Area Science Festival 2016
http://www.bayareascience.org/festival/
(October 27 to November 5, 2016) - The 6th Bay Area Science Festival Returns bigger and better than ever! This year’s schedule is full of events all over the Bay Area. There is something for every age level and in a wide variety of topics and formats. Check out the full schedule of events at www.bayareascience.org

Bay Model Visitor Center

Natural Mystic – Art Exhibition
http://www.spn.usace.army.mil/Missions/Recreation/BayModelVisitorCenter/CalendarofEvents.aspx
(September 20 – November 12) Local Marin Photographer, Shayne Skower, harnesses the power of Mother Nature through the lens of his camera. Shayne’s West Marin focused photography has been recently published in National Geographic and Marin Magazine. Shayne holds annual galleries in West Marin, more of his work can be seen at www.skower.com.
Meet the artist October 1, 1–3pm.

California Academy of Sciences

Big Picture
http://www.calacademy.org/exhibits/bigpicture
(through October 30, 2016) - BigPicture illustrates and celebrates the incredible diversity of life on Earth with stunning works by award-winning nature, wildlife, and conservation photographers from around the globe. See all of the winning images, including the powerful Grand Prize winner (above) featuring a white rhino in Etosha National Park, Namibia, photographed by Maroesjka Lavigne. Throughout the exhibit, valuable insights from Academy scientists accompany the striking moments captured by photographers and help explain how vital these images are in efforts to protect our planet.

Twilight Zone: Deep Reefs Revealed
http://www.calacademy.org/educators/field-trips
Opens June 10, 2016 in the Coral Reefs of the World gallery. Step inside a realm known as the twilight zone—a narrow, dimly lit band of the world’s oceans more mysterious to scientists than the surface of the Moon. In this new aquarium exhibit, discover the beauty and importance of the little-known reefs that exist between 200 and 500 feet below the ocean’s surface. Meet spectacularly colorful fish and rarely seen invertebrates, learn about the innovative technologies that are enabling Academy scientists to study this new frontier, and discover what you can do to help protect these amazing—and vitally important—ecosystems.
Gems and Minerals Unearthed
(Opening September 30, 2016) New Exhibit! - Marvels of the Earth, gems and minerals are as essential to our daily lives as they are brilliant and beautiful. In the California Academy of Sciences' newest gallery, explore dazzling and dramatic specimens from the Academy’s remarkable geology collection—from iconic gems that play a vibrant part in the institution's history to newly-displayed geologic wonders. View a giant crystal quartz specimen up close, discover how fluorescent minerals glow under UV light, and learn how these natural wonders have influenced ancient and modern cultures around the world.

David Brower Center
Art/Act: The Canary Project
http://browercenter.org/exhibitions-programs/artact2016/
(September 23, 2016 – February 9, 2017) The David Brower Center is pleased to present its eighth annual Art/Act Award and Exhibition honoring the prolific arts initiative The Canary Project. The exhibition presents an overview of The Canary Project’s work and a more in depth look at a current project regarding water issues in California called Water Gold Soil: American River. The exhibit as a whole will present a strong statement of the many possibilities for art, design and education to contribute vitally to environmental movements.

DiscoverE
National Engineers Week - February 19-25, 2017
http://www.discovere.org/our-programs/engineers-week
Celebrate how engineers make a difference in our world. Increase public dialogue about the need for engineers. Bring engineering to life for kids, educators, and parents. More than a week-long event, Engineers Week is a year-round commitment to making a difference.

Exploratorium
Curious Contraptions: Featuring Cabaret Mechanical Theatre
http://www.exploratorium.edu/visit/calendar/curious-contraptions
(November 17, 2016–January 29, 2017) Turn the crank and see what happens. A sailor pops his head out of a miniature submarine and surrenders; a trio of jackal-headed Egyptian gods perform jumping jacks. These and other absurd and enchanting dramas unfold in Curious Contraptions: Featuring Cabaret Mechanical Theatre.

The exhibition features more than 20 whimsical, moving machines—known as automata—designed by artists such as Paul Spooner and Keith Newstead. Their ingeniously crafted contraptions make characters jump, swim, eat, or fly using intricate systems of cranks, cams, gears, and other simple mechanisms. The show also features exhibits that reveal how these basic components work to create lifelike movements in a variety of speeds, directions, and patterns.

Hayward Shoreline Interpretive Center
Impressed with Wax: An Exploration of Contemporary Encaustic
http://www.haywardrec.org/401/Exhibits
(October 8, 2016 - January 8, 2017) - Artist Josie Rodriguez Encaustic is an ancient painting process that comes from the Greek work enkausticus meaning heat or burn. Molten wax and heat throughout the process creates fluid, transparent and rich qualities as it painted on a wood panel or formed into a vessel or sculpture. The work that you see shows rich examples of contemporary encaustic from hanging assemblage pieces, to vessels and two-dimensional work. Josie Rodriguez's work has been described as organic and yet elegant as she often incorporates natural materials in her art respecting the work of the honeybee - place where art and science meet.

Junior Center of Art and Science
California Native Americans
http://www.juniorcenter.org/exhibits.html
(June 13 – December 13, 2016) - This exhibit will explore the culture of California Native Americans through displays of their tools, baskets, food, games, hunting techniques, shelter, and creation myths. Students will enhance their awareness of Native Americans through an exhibit tour, demonstrations, play with authentic games, and an interactive art project crafted from native materials.

African American Inventors
http://www.juniorcenter.org/exhibits.html
(January 31 – April 28, 2017) This exhibit will highlight a selection of the many contributions that African-American inventors and scientists have made to American society. The featured inventors are credited with the creation of items we see around us every day such as the traffic light, the elevator, the fountain pen, and much more. Historical and contemporary inventors will be represented.
Lawrence Hall of Science

Super Cells
http://www.lawrencehallofscience.org/visit/exhibits/featured/super-cells
Immerse yourself in the fascinating world of stem cells. Discover how the human body’s “super cells” help with everything from healing a common bruise to growing up, then learn about the latest stem cell research from around the world. Take control of your journey with interactive touch screens as you learn about stem cells in humans and animals, explore regeneration and other stem cell super powers, and step into the shoes of a scientist to explore stem cell research in a simulated lab setting.

Legion of Honor

The Future of the Past: Mummies and Medicine
(through August 26, 2018) at the Legion of Honor - Ancient Egypt meets modern medicine in this exhibition that makes use of 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

The Owl & the Woodpecker Photo Exhibit
https://lindsaywildlife.org/general/owl-and-woodpecker-photo-exhibit/
(through Dember 31, 2016) The Owl & the Woodpecker introduces Lindsay visitors to photographs of the most important species of owls and woodpeckers in North America, illustrating how they define and enrich the specific habitats on which they depend, and highlighting the critical importance of conservation. This traveling exhibit, from the Burke Museum in Seattle, is based on a book of the same title by Seattle photographer and author Paul Bannick.

National Audubon Society

The Great Backyard Bird Count
http://gbbc.birdcount.org/
(February 17-20, 2017) Great citizen science project to do as a class or encourage students to do at home.

Oakland Museum of California

Bees: Tiny Insect, Big Impact
http://museumca.org/exhibit/bees
(Closes June, 2017) - Take a look at the wildly diverse and intricate world of one of the most important creatures to human agriculture and the natural environment. Through family-friendly experiences, hands-on activities, and media, Bees: Tiny Insect, Big Impact touches on topics of honeybees and Bay Area beekeeping, the diversity of California native bee species, citizen science projects, and the similarities between bees and humans. Discover real bee specimens under a microscope, crawl through a human-sized beehive, and try on a beekeeper suit. The exhibition continues outside of the Gallery: get involved with citizen science organizations, check out bee hotels installed in the OMCA gardens, and take home guides on planting a bee-friendly garden and building bee hotels for your own garden. In an immersive gallery environment, explore the causes of bee population decline, learn about the significance of bees to California's economy and ecosystems, and discover how simple but powerful actions by Californians can help bees to survive in a changing world. Docent-led tour for K-6 on bees and other pollinators are available

Randall Museum

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