To Contact CRS - Call 510-527-5212 or Email CRS@crscience.org
BASIS presentations are available for free to public elementary teachers who are CRS members in the East Bay, primarily along the corridor from Pinole to Oakland. BASIS volunteers are scientists, engineers, and other STEM professionals, including graduate students and post-docs at UC Berkeley, and employees from local science-based companies. CRS recruits, prepares, and coaches these volunteers to be effective ambassadors for science teaching and learning. They bring exciting one-hour lessons directly into classrooms, engaging students in hands-on investigations and engineering challenges that are age-appropriate and aligned to standards.

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

- **Watch your email!** As BASIS teams notify us of their availability, CRS sends email invitations to eligible teacher members at the appropriate grade level for specific dates and times (i.e. invitations for 3rd grade BASIS lessons are sent out only to 3rd grade teachers).
- **Reply promptly!** Presentations are scheduled generally on a first come, first served basis. Because demand for BASIS presentations often exceeds supply, we give priority to teachers who have not yet received a lesson during the current school year.
- **Watch your email again!** We will send you a confirmation of which program, date and time you have received.
- **Connect with your scientists before the lesson.** If you haven’t heard from your scientists yet, please reach out to them to give them so that you can ask each other questions and be fully prepared for their visit.

More details available at: www.crscience.org/educators/BASIS
Adapting the "5-E"s to the "3-D" Approach

For some teachers who have long embraced a "5-E" instructional model to plan science lessons, the shift to Next Generation Science Standards (NGSS) with its "3-D" approach may seem daunting. But, the 5-E model can provide a useful structure for planning lessons that incorporate the NGSS practices and cross cutting concepts while exploring a specific disciplinary core idea or topic.

Here's a quick sample chart with an example of mapping of NGSS components using a 5-E lesson plan template. Using the 5-E model to plan the lesson components, specific NGSS 3-D elements can be adapted and mapped out for each component of the lesson, with teachers filling in specific activities such as experiment, science notebook prompts, science discussions, text to read, etc.

<table>
<thead>
<tr>
<th>5-E Components of Investigation</th>
<th>NGSS – 3-D Components</th>
<th>Practices (SEP) likely to be used in this step</th>
<th>Cross-Cutting Concept (CCC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engage – introduce topic for investigation and activate prior knowledge, build connections with prior knowledge</td>
<td>Use phenomena to introduce topic (core idea)</td>
<td>Asking Questions Using models</td>
<td>Cross cutting concept shapes the questions teachers ask to prompt student thinking</td>
</tr>
<tr>
<td>Explore – design and conduct investigation, collect data, use skills to investigate questions in a systematic way</td>
<td>Building understanding through the storyline through investigations</td>
<td>Planning/Conducting investigations Collecting Data</td>
<td>Shapes investigation, test design</td>
</tr>
<tr>
<td>Explain – present charts and other graphics to examine data and share ideas about what the data means; discuss, write, draw to make thinking visible</td>
<td>Connecting back to big question, understanding phenomenon</td>
<td>Analyzing &amp; interpreting data Computational thinking Constructing explanations</td>
<td></td>
</tr>
<tr>
<td>Elaborate – use the ideas and information gathered to try to answer the key question or explain phenomena, to predict or apply ideas</td>
<td>Connect learning from specific investigation to larger DCI, contextualize, provide real-world connections</td>
<td>Evaluating claims, Engaging with argument from evidence Communicating Using models</td>
<td>CCC frames the claims, and sets stage for next questions in storyline to build understanding of phenomena</td>
</tr>
<tr>
<td>Evaluate – teacher assesses student understanding; students reflect on their own learning</td>
<td>Reflecting on students’ learning, collaboration</td>
<td>Communicating information</td>
<td></td>
</tr>
</tbody>
</table>


Find more NGSS Resources at www.crsScience.org/educators/standardssupport
Why Supporting K-6 Science Teaching & Learning Matters More than Ever

Once upon a time, you were a kindergartener or a 4th grader – and so were your professors, colleagues, even Nobel Laureates! What inspired you, and them, to continue onto the pathway into science, engineering, or to becoming someone who bases decisions on evidence? Chances are, early learning experiences played a key role!

Too often, science is sidelined in elementary schools, pushed aside by the demands of standardized testing in math and language arts, and by the relative lack of training and support elementary teachers receive in science.

You, our partners and donors, share our belief that all children should have access to exciting science learning experiences in school that build on their natural curiosity about their world because science is a gateway to the future.

Thank you for helping CRS ensure that as many kids as possible – especially in the most underserved schools in our regional community – have opportunities for inspiration, and to discover their own talents and interests. Maybe they love making circuits light up or sending marbles down a hand-made cardboard roller coaster chute. Maybe they love animals, or the night sky, or plants, or discovering patterns in math.

Each time a team of BASIS volunteers walks into a local classroom, 25-32 young children get to meet a “real” scientist, and to find out that the things they are learning in class (like how to make a data chart or to sketch in their scientific notebook) are things the “real” scientist do in their work too!

“Whether they are examining variations in seed dispersal or states of matter, kids have amazing questions, observations, and ideas to share with the Cal students and faculty, and local STEM business employees who volunteer with BASIS,” says Tyler Chuck, CRS Senior Manager for Engagement and Outreach. “These visits have immediate resonance, and lasting impact. And they are fun!”

Each Spring, CRS ramps up the scientist to schools connection with special Day of Science events for teachers who encourage fellow teachers at their school to take the Science Super Star Challenge as a way to build community and strengthen learning opportunities for students.

At one school in East Oakland where most students live in low income households, often in immigrant families where English is not spoken at home, a CRS team arrived on a bright Spring morning to set up a series of investigation stations that all 400 students would have the opportunity to explore. A crew of eager student helpers greeted us and guided us along hallways adorned with “Welcome Scientists!” signs.

Throughout the day, students arrived with flowers, treats, and hand-drawn thank you notes to the delight of our nearly two dozen BASIS volunteers, including employees from Bayer, Caribou, and Exponent, and graduate students from UC Berkeley.
Seals, Hikes, Views and Discovery fill Fall Field Trip for Teachers

What could be better than a day in the Marin Headlands? A day spent in the Marin Headlands on a field trip just for teachers, with no students to worry about!

This Fall, we teamed up with three stellar science and environmental education partners to create an amazing day of “select your own adventure” opportunities for CRS teacher members to learn about one, two, or all three sites featuring environmental education, exploration, and discovery.

First on the Field Trip for Teachers agenda: a tour and teacher info session at the Marine Mammal Center to learn about their educational programs and their work rescuing ill or injured seals and sea lions. A peek into the necropsy lab, where scientists learn about the connections between the health of marine mammals and the health of the Pacific Ocean, is not for the faint of heart – but is deeply fascinating!

Next up, Point Bonita YMCA, where CRS teachers could opt to join a hike out to the lighthouse, or simply tour the campus. Thanks to the YMCA for providing a tasty lunch and lively program discussion to sustain the group! We learned the “best kept secret in environmental education”: fall outdoor education and overnight trips are easier to book than the crowded spring season, and the benefit is building community, student engagement, and experiences that carry through the entire school year!

Then, it was on to our third venue: the Bay Area Discovery Museum in Sausalito, with sweeping views of the Bay at northern foot of the Golden Gate Bridge. Teachers were eager to check out the newly opened Sun Moon & Stars exhibit, a new age-appropriate opportunity that aligns with new 1st grade science standards. In addition to field trip programs, BADM brings engineering exploration out to schools with their Try It Truck.

“This is such an enriching, delightful, and informative day -- I’m so grateful you do this for educators,” one principal told us on the uphill hike back from the Pt. Bonita Lighthouse, to the YMCA building where a lovely hot lunch, coffee, and brownies awaited.

“Our Field Trips for Teachers are an important way for us to get to know our teacher members even better, and to hear about what excites and challenges them,” explains Corinn Brown, who has been CRS Teacher Services Manager for 15 years. “Teachers have a chance to build relationships with colleagues by stepping away from the school and sharing an adult learning experience, enjoying a special tour and behind the scenes information from our amazing partner organizations.”

Connecting Scientists & Schools:
Celebrating 15 Years of Partnership with UC Berkeley

A chance encounter at a holiday party 15 years ago sparked the collaboration between CRS and UC Berkeley campus that has grown from a handful of graduate students in one College of Chemistry lab, to now including 600 Cal grad students, post docs, and even a few undergrads and faculty.

To celebrate the milestone, and launch a new year of outreach into East Bay schools, nearly 200 current (and prospective!) scientist and engineer volunteers turned out on Sept 26 for the annual Fall Kick Off at UC Berkeley. Between the Bay Area Scientists in Schools (BASIS) program bringing lessons into pre-K to 6th grade classrooms, and the Be a Scientist program bringing mentors into 7th grade science classes, CRS volunteers reached more than more than 16,000 children last school year.

UC Chemistry Professor Robert Bergman shared the origin story of the CRS-UC partnership, describing how CRS staffer Corinn Brown told him that local elementary teachers wanted “real scientists” to come into their classrooms and do science activities with their students.

“What you are doing is very important!” Professor Bergman said to the volunteers. “You are helping the students and the community, and you are helping your research labs demonstrate their broader impact.”
We have ambitious goals for the coming school year – to bring more joy, discovery, inspiration and learning to more kids in East Bay schools. Your gift directly strengthens opportunities for young learners in our community, particularly in classrooms where enrichment and support are needed most.

Members of the CRS Board of Directors have collectively pledged to match all Fall Giving contributions up to $16,500! Give today and double the impact.

Want to save on your taxes, and do good in the community too?

Contact CRS if you would like to learn about how to donate directly from your retirement accounts, in order to save on taxes when taking required minimum distributions from retirement accounts.

You can also donate stocks to CRS! If you are interested in donating stocks, please contact us at giving@crscience.org

To make a donation, visit our giving page

www.crscience.org/events/fallgiving

Or mail a check and the form below to:

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

Another Way to Help as You Shop!
1. Go to www.smile.amazon.com
2. Login with your regular Amazon credentials
3. Choose Community Resources for Science as your beneficiary
4. CRS will receive a portion of your Amazon purchases at no added cost to you.

Name: ________________________________________________________________

Address: _______________________________________________________________________

City: _______________________________________  State: ____________  Zip: _______________

Phone: _____________________________ Email: _____________________________________

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

This gift is in honor of: _______________________________________________________________

We will notify honoree if you provide mailing address: ______________________________________

My favorite science memory or activity is: _______________________________________________
Grants and Sponsorships:
Arthur Rock Foundation
Berkeley Public Schools Fund
Irene S. Scully Family Foundation
Bayer Health Care
Clorox Company Foundation
Dean and Margaret Lesher Foundation
Dean Witter Foundation
Cisco Systems Foundation
Wareham Development
UC Berkeley College of Chemistry
Joseph and Mercedes McMicking Foundation
Clif Bar Family Foundation
Grifols
Port of Oakland
In Dulci Jubilo, Inc
Neda Nobari Foundation
Kinder Morgan Foundation
VWR Foundation
The Barrios Trust
Goggio Family Foundation
Bernard A. and Alba Witkin Charitable Foundation
The Lowell Berry Foundation
Associated Students University of California
Oakland/Berkeley Association of Realtors
Seyfarth Shaw Charitable Foundation
Aduro Biotech

In-Kind & Business Donations:
Lagunitas Brewing Company
Cal Shakes
Drake’s Brewing Company
Dublin Iceland
The Natural Grocery Co.
Golden Tee Goftland
La Mediterranee
Bakesale Betty

These foundations and businesses are supporting our work in 2018, making it possible for CRS to provide teachers, schools and districts with free support and in-class scientist presentations. Thank you to these partners!

“In our increasingly tech-connected world, children still need and benefit from time spent with caring adults, willing to share information, laugh together at a surprising discovery, and talk about ideas”

- OUSD Teacher

Students show their appreciation for BASIS lessons by writing thank you notes to scientists at UC Berkeley

“If I am always amazed how the BASIS visits energizes my class. My students are made to feel safe to explore and learn because the scientists make them feel so comfortable and confident”

- OUSD Teacher

BASIS volunteers excited to point out UC Berkeley on a campus mural after teaching a lesson on stormwater in Oakland

STRENGTH IN NUMBERS

DID YOU KNOW THAT THE MAJORITY OF VOLUNTEERS IN OUR BE A SCIENTIST MIDDLE SCHOOL PROGRAM IDENTIFY AS FEMALE (54%)? AND, THAT 63% IDENTIFY AS A PERSON OF COLOR?
How do you give teachers who love science opportunities to encourage fellow teachers to discover their own scientific curiosity and interest? Take ‘em for a boat ride!

Earlier this year, CRS Advisory Council members identified promising strategies to foster science identities among more elementary teachers. One suggestion was to provide opportunities for enthusiastic, confident teachers – such as our Science Super Star honorees – to bring a fellow teacher on an adventure to discover the amazing science connections to daily life in unexpected places.

To put this idea into action, CRS partnered with the Port of Oakland to arrange a special harbor tour of the Port of Oakland. On a lovely Friday evening, more than a dozen Oakland elementary educators met up for an up close tour to see some of the bay wildlife, as well as the engineering and logistics that make the busy port function.

“Always assumed I couldn’t do outdoor learning with my students because we do not have a verdant campus. I’m excited to learn about the many ways I can take my students outside to explore phenomena and learn about the natural world, even on our urban, asphalt schoolyard. This was so eye-opening and inspiring!”

WCCUSD teachers from San Pablo, Pinole, Hercules, and Richmond.

“My goal is to walk away from this summer institute with the tools, understanding, confidence, and resources to take science teaching to new heights in my classroom next year,” said one teacher at the outset.

We’ve been delighted to see how much difference some time for teacher learning, collaborative planning, and access to materials can make. At the outset of our work with WCCUSD teachers, most say they previously taught little to no science content, and when they did it was mainly reading books or watching videos. After training and access to CRS year-round support services, most participating teachers have significantly increased science learning opportunities for their students.

Teachers discover the power of using meaningful science investigations and engineering design challenges in their classrooms, letting elementary children put their emerging reading, writing, and math skills to use.

CRS taps into kids’ curiosity as a motivator to get them excited about learning, by sending BASIS teams into Richmond and other WCC classrooms throughout the year. These visits help teachers see how science engages all types of learners and develops critical thinking, collaboration and communication skills of young learners.

CRS is honored to receive recognition – along with our collaboration partners – from West Contra Costa Unified School District for our work strengthening science teaching and learning opportunities for thousands of West Contra Costa students.

Previous summer intensive sessions, along with school year professional development, have involved hundreds of
Teacher Grants: Specific Deadlines

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

October 2018

10/15/2018  The Lorrie Otto Seeds for Education Grant Program  Wild Ones
http://www.wildones.org/seeds-for-education/sfe/
up tp $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.

10/15/2018  Student Achievement Grants  The NEA Foundation
http://www.neafoundation.org/pages/nea-student-achievement-grants/
$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.

10/15/2018  Learning & Leadership Grants  The NEA Foundation
http://www.neafoundation.org/pages/learning-leadership-grants/
$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.

10/15/2018  Honey Bee Grant  Whole Kids Foundation
https://www.wholekidsfoundation.org/landing-pages/school-gardens-landing
$1500 or equipment
Four grant options:
1. Monetary grant of $1,500 to support the success of a honey bee hive educational program.
2. Observation hive: equipment grant of a custom made indoor observation hive from The Bee Cause Project
3. Traditional Langstroth Hive: equipment grant an outdoor hive with Starter Kit
4. Top Bar hive: equipment grant of an outdoor top bar hive with Starter Kit All equipment grants include a small monetary grant of $300 to cover the first year of expenses. Grant recipients also receive remote consultation and assistance with Beekeeper partnership from The Bee Cause Project.

10/15/2018  Garden Grant Program  Whole Kids Foundation
https://www.wholekidsfoundation.org/landing-pages/school-gardens-landing
$2000
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.

10/22/2018  Roots & Shoots Community Campaign Mini-Grants  Roots and Shoots
http://www.rootsandshoots.org/minigrant
$200
Use your community map to identify a service campaign. Already involved in a campaign? Use your map to reflect on why you chose your existing campaign and explore your campaign's potential impacts. Also, start a project profile on www.rootsandshoots.org.

10/31/2018  Fuel Your Schools Grant - Last Day to submit  Chevron
http://www.fuelyourschool.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. The Project Submission Period will begin at 9:00:00 p.m. EDT on September 30, 2018 and is scheduled to end at 11:59:59 p.m. EST on October 31, 2018. Eligible project requests will be funded on a rotating basis by the order in which they are received and posted on DonorsChoose.org per Eligible School within each city, so post your project as soon as possible during that time. Chevron reserves the right to end the Project Submission Period earlier if funds have been exhausted by eligible projects. The earlier you post your project during the submission period, the better your chance will be to receive funding.

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

Printed: 10/4/2018  Teacher Grants
**November 2018**

<table>
<thead>
<tr>
<th>Date</th>
<th>Grant Description</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/1/2018</td>
<td>Grants For Grades 6 - 12</td>
<td>Toshiba America Foundation</td>
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<tr>
<td></td>
<td>Toshiba America Foundation is currently accepting applications from teachers who are passionate about</td>
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<td>making science and mathematics more engaging for their students. Do you teach 6-12 science or math? Do</td>
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<td>you have a wish list of instructional equipment that will make learning more exciting for your students?</td>
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<td></td>
<td>$5000 +</td>
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<tr>
<td>11/1/2018</td>
<td>Environmental Education Grants</td>
<td>The Lawrence Foundation</td>
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<tr>
<td></td>
<td>Grants to support environmental, education, human services and other causes. Interests are diverse and</td>
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<td></td>
<td>may lead into other areas on an occasional basis.</td>
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<td></td>
<td>$5000</td>
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<tr>
<td>11/2/2018</td>
<td>various grants for all levels available</td>
<td>National Council of Teachers Mathematics</td>
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<td>up to $6,000</td>
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<td>Various grants available as recognition and to fund PD in math.</td>
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<td>11/5/2018</td>
<td>Whale Tail Grants Program</td>
<td>California Coastal Commission</td>
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<tr>
<td></td>
<td>$500-$50,000</td>
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<td></td>
<td>* This program supports marine science education and projects encouraging people to value and take</td>
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<td></td>
<td>action to improve the health of California's marine and coastal environments.</td>
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<td></td>
<td>* This year there is a special subcategory for projects addressing climate change and/or ocean</td>
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<td>acidification.</td>
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<td>* Emphasis is on reaching underserved students or members of the public.</td>
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<tr>
<td>11/7/2018</td>
<td>Fuel Up to Play 60</td>
<td>United States Department of Agriculture</td>
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<tr>
<td></td>
<td>up to $4000</td>
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<td></td>
<td>Fuel Up to Play 60: Jump Start Healthy Changes Grants offer funding for schools to improve opportunities</td>
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<td></td>
<td>for healthy eating and physical activity. Funds are awarded for schools to implement at least one</td>
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<td>Healthy Eating Play and one Physical Activity Play from the Fuel Up to Play 60 Playbook.</td>
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<tr>
<td>11/10/2018</td>
<td>Green Teacher Materials Give Away</td>
<td>East Bay Depot for Creative Reuse</td>
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<td></td>
<td>free</td>
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<td></td>
<td>11:00 - Sign up on line to be one of their “Green Teachers.” Green Teachers will be eligible to take</td>
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<td>two grocery sacks full of free materials</td>
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<tr>
<td>11/10/2018</td>
<td>The Max and Victoria Dreyfus Foundation Grant</td>
<td>The Max and Victoria Dreyfus Foundation</td>
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<td></td>
<td>$1,000 to $20,000</td>
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<td>The Foundation will consider requests to support museums, cultural, and performing arts programs;</td>
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<td>schools, hospitals, educational and skills training programs, programs for youth, seniors, and the</td>
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<tr>
<td></td>
<td>handicapped; environmental and wildlife protection activities; and other community-based organizations</td>
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<td></td>
<td>and their programs.</td>
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<tr>
<td>11/11/2018</td>
<td>Annie’s Grants for Gardens</td>
<td>Annie’s Homegrown</td>
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<tr>
<td></td>
<td>$2500-5000</td>
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<td></td>
<td>Grants for school gardens that connect children directly to real food. These funds can be used to buy</td>
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<td>gardening tools, seeds or other needed supplies. 30 schools will receive $2,500 and three schools</td>
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<td>(must be returning Grants for Gardens applicants who have received a grant from us in the past five</td>
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<td>years) will receive $5,000.</td>
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<tr>
<td>11/15/2018</td>
<td>Career Development Grants</td>
<td>American Association of University</td>
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<tr>
<td></td>
<td>$2,000-12,000</td>
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<td></td>
<td>Supports women who hold a bachelor's degree and are preparing to advance their careers, change</td>
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<td>careers, or re-enter the work force. Special consideration is given to women of color, and women</td>
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<td>pursuing their first advanced degree or credentials in nontraditional fields.</td>
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<tr>
<td>11/15/2018</td>
<td>Albert Einstein Distinguished Educator Fellowship - Deadline</td>
<td>Einstein Fellowship</td>
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<tr>
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<td>$7000/month in stipend and housing expenses</td>
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<td>Einstein Fellows usually spend a school year in a professional staff position in the U.S. Senate or</td>
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<td>House of Representatives, at the Department of Energy (DOE), or at other federal agencies such as the</td>
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<td></td>
<td>National Aeronautics and Space Administration (NASA), the National Science Foundation (NSF), or the</td>
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<td>National Institute of Standards and Technology (NIST).</td>
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<tr>
<td>11/19/2018</td>
<td>Budding Botanist Grant</td>
<td>KidsGardening.org</td>
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<td>$2500 cash plus $500 in materials</td>
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<td>Any Title I public or charter school in the United States is eligible to apply. Applicants must be</td>
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<td></td>
<td>planning a new or expanding an existing school garden program designed to teach students about</td>
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<td>environmental sustainability and the importance of biodiversity.</td>
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</tbody>
</table>

*We're here to help you find the science resources you're looking for. Email us at CRS@crscience.org*
December 2018

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

12/1/2018  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.

12/15/2018  Educator Grants  Air Force Association
https://www.afa.org/informationfor/teachers/k12grants/educatorgrants
$250  Educator Grant promotes aerospace education activities in classrooms from kindergarten through twelfth grades. The program encourages development of innovative aerospace activities within the prescribed curriculum.

12/17/2018  Numerous Teaching Awards  National Science Teachers Association
http://www.nsta.org/about/awards.aspx
varied  About 20 awards for teachers of science from Kindergarten through college. Please check out their website for more details on the awards. Various Prizes. Most have a cash prize and expenses to the NSTA conference.

12/17/2018  2019 Youth Garden Grants  KidsGardening.org
https://kidsgardening.org/2019-youth-garden-grant/
$500-2100  25 Schools receive award. Grants to schools and community organizations with child-centered garden programs. Priority will be given to programs that emphasize one or more of these elements: * educational focus or curricular/program integration, * nutrition or plant-to-food connections, * environmental awareness/education, * entrepreneurship * social aspects of gardening such as leadership development, team building, community support, or service-learning.

12/31/2018  Community Grant Program  Walmart Foundation
http://foundation.walmart.com/apply-for-grants/local-giving
$250 - $2,500  Supports local, state and national organizations that provide opportunities for individuals and families to live better. 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.

12/31/2018  Teacher Induction Program  The National Teachers Hall Of Fame
http://www.nthf.org/awards
$1000 +  The National Teachers Hall of Fame serve as ambassadors both for the NTHF and the teaching profession, and are expected to uphold the standards of excellence set forth by the educational community.

January 2019

1/4/2019  Educator Achievement Award  AIAA Foundation
Recognition and trip to Washington DC
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.

1/11/2019  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.

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

Printed: 10/4/2018  Teacher Grants
Captain Planet Foundation

We believe that technology can present innovative ways to address environmental challenges – and that when dealing with digital natives, we do ourselves a disservice by asking them to unplug. Examples of previous ecoTech Grant funded projects have involved: the integration of robotics and sensors to explore water bodies, collect data, and organize clean-ups; the development of aquaponic and hydroponic systems using arduinos and remote sensing; renewable energy design challenges; biotechnology research; nature-based design applications.

up to $2,500 ecoTech Grants
http://www.captainplanetfoundation.org/grants/

1/15/2019

Captain Planet Foundation

Grants are intended to support solution-oriented, youth-led projects that result in real environmental outcomes. Available to educators working with youth in the United States. Please note that ecoSolution Grants will only support direct project costs. Support for t-shirts, staff salaries, field trips, scholarships, beautification/landscaping, etc. will NOT be considered.

$250-2,500 ecoSolution Grants
http://www.captainplanetfoundation.org/grants/

1/15/2019

Captain Planet Foundation

ecoSTEM Kits were curated to engage students in project-based learning, including observing phenomena, conducting inquiry investigations, making models, collecting data for citizen science projects, creating solutions to engineering challenges, and conducting environmental stewardship projects to solve real-world problems. Each kit contains supplies for 32 students. In addition to being available through DonorsChoose.org and for direct sale, a limited supply of kits are available as Material Support Grants.

1/15/2019 ecoSTEM Kit Grant
http://www.captainplanetfoundation.org/grants/

February 2019

2/6/2019 ExploraVision K-12 student competition
http://www.exploravision.org/

Toshiba America Foundation

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.

$10,000 grand prize, many more smaller prizes

2/14/2019 CRS Science Super Star Challenge
http://www.crscience.org/educators/SSSprogram

Community Resources for Science

Recognition and prizes

We want to reward you for the science teaching and learning happening in your classrooms and schools. This year’s Science Super Star Challenge shines the spotlight on the impact of that transformation: how have the changes to your science teaching resulted in deeper, more thoughtful, engaged learning opportunities for your Science Super Star Students?
## Teacher Grants: Rolling or Continuous Deadlines

| Teacher wishlist | Adopt-A-Classroom Grants | Adopt-A-Classroom
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<td></td>
<td><a href="http://www.adoptaclassroom.org">http://www.adoptaclassroom.org</a></td>
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<tr>
<td></td>
<td>Register your classroom online. This site pairs you with people who want to give money to your classroom to purchase supplies. Is not project based.</td>
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| FREE field trip to Alcatraz | Alcatraz School Access Program | Alcatraz Island
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<td><a href="http://www.nps.gov/alca/planyourvisit/school-access-program.htm">http://www.nps.gov/alca/planyourvisit/school-access-program.htm</a></td>
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<td></td>
<td>Public Schools with 60%+ of students receive free and reduced lunches or Private Schools where 60% of students receive scholarships are eligible to receive free tickets for visits to Alcatraz between January 3 - March 15, November 1-15, and December 1-15.</td>
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| $10,000+ | Amgen Foundation Grant | Amgen Foundation
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<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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<td></td>
<td>The areas given priority consideration within science education are: Teacher quality and professional development in math and science, and Pivotal hands-on science experience for students.</td>
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| Program Scholarship | Program scholarships | Bay Area Discovery Museum
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<td><a href="http://bayareadiscoverymuseum.org/school-visit/scholarships/">http://bayareadiscoverymuseum.org/school-visit/scholarships/</a></td>
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<td></td>
<td>Scholarships for school visit programs. For elementary schools serving more than 40% of students who qualify for free and reduced lunch and preschools serving more than 40% of families through child-care subsidies.</td>
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| Approximate value - $1000 | Amy Chamberlain Scholarship Fund | Bay Area Wilderness Training
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<td><a href="http://www.bawt.org/programs/funding/scholarships/">http://www.bawt.org/programs/funding/scholarships/</a></td>
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<td></td>
<td>Each scholarship provides full tuition to BAWT’s Wilderness Leadership Training (WLT), as well as post-course support. Must apply one month prior to the class you desire to take.</td>
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| Varies | Friends & Family Grants - BERKELEY Schools only | Berkeley Public Schools Fund
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<td><a href="https://schoolsfund-friendsandfamily.herokuapp.com/">https://schoolsfund-friendsandfamily.herokuapp.com/</a></td>
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<td>This crowd-funding platform allows teachers to submit grant applications to fund new projects, materials, or equipment anytime throughout the year. Anyone can donate to a grant, and the site is searchable by teacher, school, and subject area. Similar to DonorsChoose but exclusively for Berkeley teachers.</td>
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| discount bus rental rate | Black Tie Community Bus | Black Tie Tansportation
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<td>Bus is offered to non-profit organizations and to schools to transport children ages K-12 for school outings at a discounted rate to those who apply in advance and meet the requirements of the application process.</td>
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| $2500 | California Casualty Academic Award | California Casualty
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<td></td>
<td>Enter to win $2500 to cover your out of pocket expenses</td>
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| $1500 plus design services | Native Garden Design Grants | California Native Garden Foundation
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<tbody>
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<td>Support include garden design services, in-kind donations of plants and landscape materials, volunteer assistance, and direct financial assistance. A typical grant cycle is about 5 months. Grant amounts are limited to $1,000 for in-kind assistance, $500 in direct cash assistance, and $5,000 for design services.</td>
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| 50% and 100% field trip discounts | Free Field Trips | Children’s Creativity Museum
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<td><a href="http://www.creativity.org/programs/school-fieldtrip-fee-waiver-request">www.creativity.org/programs/school-fieldtrip-fee-waiver-request</a></td>
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<td></td>
<td>Reduced-rated and fee-waived programs for CA Title 1 and qualifying schools are now available.</td>
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We’re here to help you find the science resources you’re looking for. Email us at CRS@crscience.org

Printed: 10/3/2018

Teacher Grants - Rolling Deadlines
Computers for Learning

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

Digital Wish List

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

DonorsChoose.org

Teachers describe classroom needs. Contributors decide where they want to put their money. Many corporations including Disney, Chevron, and Horace Mann are now using DonorsChoose.org as the way they give away money to education. Once funded, resources sent directly to your classroom.

East Bay Children's Book Project

3:30PM – 6:00PM Every Tuesday and Thursday. Limits of the number of books you can have change from day to day. In the range of 20-30. The East Bay Children’s Book Project helps build literacy by putting books into the hands of children who have little or no access to them. Working through individuals and organizations who help children in need.

East Bay Regional Park District

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

Environmental Volunteers

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 youth-serving organizations (e.g. an after-school program serving a community with 70% FRPM or greater), the maximum subsidy is $500 per bus.

Exploratorium

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

Karma for Kara Foundation

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.

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

Printed: 10/3/2018  
Teacher Grants - Rolling Deadlines
Kinder Morgan Foundation

$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

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

Discounted admission to Oakland Museum
http://museumca.org/school-visits
A limited number of scholarships are available and are awarded based on these criteria: * Scholarships are available for programs at the Museum, but not for docent-led or self-guided tours. * Your school must be in the Oakland Unified School District (includes charter schools). * At least 70% of students at the school must qualify for the free or reduced lunch program. * Qualified applicants may receive up to a 50% reduction of the program fee. * One scholarship per teacher each school year. * Awarded on a first-come, first-served basis.

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

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

$1000 for fieldtrips Excursion Grant - Alameda, San Mateo & SF Counties
http://venturesfoundation.org/programs/teacher-grants/excursion-grants-program

$500 Environmental Sciences Resource Grants
http://www.venturesfoundation.org/programs/teacher-grants/
Grants of up to $500 will be awarded to teachers (K-12 teachers working at a low-income public school in Alameda County) to enhance classroom environmental science curriculum through projects, resources, field trips, and professional development. Examples include:
* Field trip related to the study of wetland and creek restoration and water conservation
* In-classroom presentations about endangered species by local wildlife experts
* Gardening supplies to build a wildlife habitat
* Adopt-a-Beehive program for a project-based learning activity about bees
* Materials for a school-wide climate stewardship project to mitigate the effects of climate change
Limit 2 grants per school

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

Printed: 10/3/2018  Teacher Grants - Rolling Deadlines
A variety of classrooms grants generally become available at the beginning of the school year. The application is one simple faxed page. You receive notification within days. Funding runs out quickly, so act quickly. Check back often as sometimes new funding sources become available.

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

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

StopWaste.org
$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.

The Crucible
Program discounts for teachers (personal)
TheCrucible.org/policies-resources/registration-pricing-discounts/#discounts
Learn more about hands-on making and pass down that passion to your students! Current K-12, undergraduate and graduate teachers and instructors can take advantage of 50% off class tuition!

The Fruit Tree Planting Foundation
Fruit Tree Orchard for Your School
http://www.ftpf.org/apply.htm
Program brings fruit tree orchards to schoolyards, so students can make a positive environmental impact at their school, while creating a source of tasty snacks for decades to come. Orchard donations involve a 12-20 tree minimum to public or nonprofit schools. The trees, materials, orchard installation design work, and onsite environmental curriculum with students are all donated.

The Kresge Foundation
Healthy Environments grant
http://kresge.org/programs/health/healthy-environments
The healthy food initiative invests in efforts to improve food-system policies and practices, especially those that provide better access to fruits, vegetables and other healthful foods and that reduce the emphasis on products without nutritional benefits in low-income neighborhoods.

Toshiba America Foundation
Mini-Grants For Grades 6 - 12
http://www.toshiba.com/taf/612.jsp
Wanted: Classroom Innovators! Toshiba America Foundation is accepting applications from teachers who are passionate about making science and mathematics more engaging for their students. Do you have a wish list of instructional equipment that will make learning more exciting for your students?

US Fish & Wildlife Services
School Yard Habitats Grants
https://www.fws.gov/cno/conservation/Schoolyard.html
Program helps create wildlife habitat at schools. Typical projects include: wetlands, meadows, forests and variations based on specific eco-regions. Many projects are planned through multiple phases and change over time as children from various classes build upon the existing work of past students. Provides technical assistance and project guidance, teacher training, develop written materials.

Wells Fargo Foundation
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.
Professional Development


October 2018

10/16/2018  Teachers' Night at the Museum
   For Grades:  K;1st;2nd;3rd;4th;5th
   https://creativity.org/calendar/educators-night-2018/
   Children's Creativity Museum

10/17/2018  Webinar: Understanding Ocean Acidification
   For Grades:  1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
   http://sanctuaries.noaa.gov/education/teachers/webinar-series.html
   National Oceanic and Atmosphere Administration

10/17/2018  Webinar: Why Learn about Insects?
   For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
   http://greenteacher.com/webinars/
   Green Teacher

10/17/2018  Introduction to K-5 NGSS Instruction
   For Grades:  K;1st;2nd;3rd;4th;5th
   https://www.eventbrite.com/e/contra-cost county-ngss-institute-introduction-to-k-5-ngss-instruction-registration-44091919452
   Contra Costa County Office of Education

10/17/2018  East Bay World History Reading Group: The Global Transformation of Time
   For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
   https://events.berkeley.edu/index.php/calendar/sn/pded/?event_ID=119593
   Office of Resources for International and Area Studies

10/18/2018  Supporting Science Instruction - Administrator Course
   For Grades:  4th;5th;6th;7th;8th;9th;10th;11th;12th
   https://we-mss.weebly.com/ngsiac2018.html
   Making Sense of Science

10/19/2018  Teachers at Sea/On-board Education Officer - Application Deadline
   For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
   http://joidesresolution.org/node/453
   Joides Resolution

10/20/2018  LiMPETS Introduction to Sandy Beach Monitoring - FREE
   For Grades:  6th;7th;8th;9th;10th;11th;12th
   http://limpets.org/teacher-resources/workshops-and-events/
   Farallones Marine Sanctuary Association

10/20/2018  Hiking Leadership Training
   For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
   http://www.bawt.org/programs/training/leadership-training/hiking-leadership-training/
   Bay Area Wilderness Training

10/19/2018 - 10/20/2018  Makers Ed Convening
   For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK;TK
   Bay Area Maker Educators

10/20/2018  Webinar: CSET Review - General Science
   For Grades:  K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
   http://fresnostate.edu/kremen/teachmathscience/documents/MSTI-Fresno%20Summer%202018%20Workshop%
10/15/2018 - 10/21/2018 Webinar: Source-Checking Bootcamp
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
https://teach.kqed.org/course/source-checking-bootcamp

10/22/2018 Webinar: Fall 2018 (Oct 29–Dec 9)
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://learn.amnh.org/

10/22/2018 Webinar: acecraft Structures - Secondary Engineering
For Grades: 6th;7th;8th;9th;10th;11th;12th
https://www.txstate-epdc.net/events/

10/22/2018 Webinar: Feeding Plants to Feed the World
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://greenteacher.com/webinars/

10/23/2018 Webinar: Schoolyard Cleanup Program
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK;TK
https://register.gotowebinar.com/register/1961735845201483522
https://register.gotowebinar.com/register/823615

10/23/2018 Designing for Inclusion
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
https://www.thetech.org/education/forteachers/bowersinstitute

10/25/2018 Webinar: Warriors Math Hoops Curriculum/Contest Training
For Grades: 4th;5th;6th;7th;8th

10/29/2018 Webinar: Explore the Solar System: Looking for Life
For Grades: 4th;5th;6th;7th;8th;9th;10th
https://www.txstate-epdc.net/events/

10/30/2018 Webinar: A Community Pathway to Stewardship
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://greenteacher.com/webinars/

November 2018

11/3/2018 Bay Area Science Festival 2018
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th;PK;TK
www.bayareasciencefestival.org

11/3/2018 FEAST -Fun Exchanges & Activities for Science Teachers
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
https://chabotspace.org/education/teacher-opportunities/feast/

11/3/2018 Going Deeper with Science Notebooks
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th
http://www.calacademy.org/events/teacher-workshops

11/3/2018 Tech for Global Good Design Challenge
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.thetech.org/educators/workshops-events

11/6/2018 Systems for Teachers of Grades K–12
For Grades: K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
https://we-mss.weebly.com/ngsitc2018.html

11/6/2018 Webinar: Observing Our Environment with Feathered Friends
For Grades: 4th;5th;6th;7th;8th;9th;10th;11th;12th
http://www.birdsleuth.org/free-webinars/
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<tr>
<th>Date</th>
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<tr>
<td>11/6/2018</td>
<td>Quickening Anthropogenic Global Warming Acceptance</td>
<td>National Association of Geoscience Teachers</td>
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<td>Webinar:                  Increase in Anthropogenic Global Warming Acceptance</td>
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<td>11/6/2018</td>
<td>Waves for Teachers of Grades 4–12</td>
<td>Making Sense of Science</td>
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<td>11/7/2018</td>
<td>Webinar: Creating Community-Wide Outdoor Education Festivals</td>
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<td>11/8/2018</td>
<td>Webinar: Observing Our Environment with Feathered Friends</td>
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<td>11/8/2018</td>
<td>Outdoor Classroom and Garden Management</td>
<td>Life Lab Science Program</td>
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<td>11/9/2018</td>
<td>Open House for Teachers</td>
<td>Exploratorium</td>
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<td>11/12/2018</td>
<td>Webinar: Infographics Bootcamp</td>
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<td>Makey - Makey</td>
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<td>11/28/2018</td>
<td>Webinar: STEM Engagement with Lunar Hotels and Mother Ships</td>
<td>NASA Education</td>
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<td>11/30/2018</td>
<td>CSTA Annual Conference 2018 - Pasadena, CA</td>
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<td>12/1/2018</td>
<td>CSET Review - Life Science</td>
<td>Fresno State University</td>
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<td>12/1/2018</td>
<td>FEAST - Fun Exchanges &amp; Activities for Science Teachers</td>
<td>Chabot Space and Science Center</td>
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Printed: 10/4/2018
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<td>Teacher Communication Fellowship - deadline to apply</td>
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<td>12/17/2018</td>
<td>STEAM Night</td>
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<td>January 2019</td>
<td>Webinar: Dissecting the Food Web: An Owl Pellet Investigation</td>
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Professional Development
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Professional Development
Professional Development

By Arrangement at Your School or Available Ongoing on Your Own

By Arrangement

STEM Professional Development Offerings
http://assetinc.org

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

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

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

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

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

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

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

Common Core & FOSS: Building ELA Skills through Active Science

Customized Workshop
http://www.lifelab.org

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

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

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

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

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

ASSET STEM Education
Banana Slug String Band
Bay Model Visitor Center
CA Dept of Fish and Wildlife, Central Coast Region
California Academy of Sciences
Community Resources for Science
John Muir Laws
KQED
Lawrence Hall of Science
Life Lab Science Program
Marine Science Institute
Resource Area for Teachers (RAFT)
Rock-It Science
StopWaste.org
Tree Frog Treks

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School Site Specific Trainings
http://botanicalgarden.berkeley.edu/education/k12.shtml#etpdanchor

Ongoing

Open Making Hours - First Wednesdays
https://www.eventbrite.com/e/open-making-hours-tickets-36906353898

Seminars on Science - Online Courses for Educators
http://learn.amnh.org/

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

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

Expand Your Media Literacy Skills
https://teach.kqed.org/

Maker Educator Meetup
http://lighthousecreativitylab.org/professional-development/maker-educator-meetups/

Free Webinars

NSTA Professional Development Resources
http://www.nsta.org/pd/

Online Courses for Educators in the Sciences
www.scientecenter.org

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

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

RAFT Laser Cutter Certification Course
http://www.raft.net/workshops/in-house

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

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

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

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

Online Professional Development Workshops
http://www.pbslearningmedia.org/

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Printed: 10/4/2018 Bring Professional Development to your School
Program Deadlines

October 2018
10/19/2018 Teachers at Sea/On-board Education Officer - Application Deadline  
Grades: K, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th  
http://joidesresolution.org/for-educators/

December 2018
12/3/2018 Lottery Deadline for Winter & Spring Fieldtrips  
Grades: K, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th  
http://www.ebparks.org/activities/educators/trips

12/4/2018 Spring Field trip Lottery ENDS  
Grades: K, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th  
https://www.sfbotanicalgarden.org/education/schoolprograms.html

12/14/2018 STEAM Communication Fellowship Program - Deadline to apply  
Grades: K, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th  
http://www.oceanexplorationtrust.org/#communication-fellowship/cb0

January 2019
1/31/2019 Registration Deadline Spring Field Trips  
Grades: K, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th  
http://www.steppingoutsteppingin.org/

February 2019
2/1/2019 Educator Academy in the Amazon Rainforest Scholarships  
Grades: K, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th  
http://amazonworkshops.com/scholarships-funding/

2/14/2019 CRS Science Super Star Challenge  
Grades: K, 1st, 2nd, 3rd, 4th, 5th, 6th, TK  
http://www.crscience.org/educators/SSSprogram

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Temporary & New Science Exhibits Around the Bay Area

American Chemical Society

National Chemistry Week - October 21-27, 2018

http://www.acs.org/content/acs/en/education/outreach/ncw.html

NCW 2018 will be celebrated October 21-27, 2018 with the theme, "Chemistry Is Out of This World." Use this website to find activity ideas and resources for your classroom celebration of chemistry.

Bay Area Discovery Museum

My Sky

https://bayareadiscoverymuseum.org/exhibit/my-sky/

(September 22, 2018 to January 7, 2019) The phenomena of the night sky may seem far away, but interactive activities can bring them within reach! At BADM's new traveling exhibit, My Sky, families can have fun and learn something new as they explore far-off wonders like the Sun, Moon, and stars right here on Earth. My Sky was produced by Boston Children's Museum in collaboration with Smithsonian Astrophysical Observatory and NASA. The exhibit encourages visitors to have fun becoming active "doers" of science, as they sharpen their observation skills, make predictions, and notice patterns!

Bay Area Science

Bay Area Science Festival 2018

www.bayareasciencefestival.org

(October 26 to November 3, 2018) - 8th annual Bay Area Science Festival. The Bay Area Science Festival returns this fall to inspire and engage the public with the science and technology that surrounds us. Organized and led by UCSF, in collaboration with hundreds of the Bay Area's premier science, cultural, and educational establishments, the 2018 Bay Area Science Festival offers a series of events over nine days all across the Bay Area. Discovery Days:
Santa Rosa on 10/27/18, Concord on 10/27/18, AT&T Park (San Francisco) on 11/3/18 – new Teen Area this year

California Academy of Sciences

Giants of Land and Sea


(Opening June 15, 2018) Discover the giant forces that make Northern California a landscape like nowhere else in the world. Ascend through the towering redwoods, step inside an immersive fog room, follow a blue whale migration route, and hear from Californians working to sustain the precious and critical ecosystems in their own backyard. Mark your calendars to join us this summer or during the 2018-2019 school year to experience Giants of Land and Sea.

Chabot Space and Science Center

Going the Distance: Our Reach into Space

https://chabotspace.org/visit/exhibits-going-the-distance/

(New Exhibit - Opening October 2) Chabot’s exciting new semi-permanent exhibition, Going The Distance: Our Reach Into Space, explores how humans are expanding our boundaries by moving farther into the Universe than ever before. The exhibition will frame large questions: why we go, how we get there, what we do there, and why this impacts us as humans.
Children's Discovery Museum of San Jose

Voyage to Vietnam

https://www.cdm.org/visit/exhibits/west-wing-changing-exhibits/
(Opens October 6) Immerse yourself in Vietnamese culture. Discover the beauty, sights, and sounds of Vietnam through the lens of Tet, the most important celebration of the year, in our newest original interactive exhibition. Dress up in customary Ao Dai and pose for an interactive family photo. Try on a giant lion head and make and launch a fireworks display to signal the culmination of the celebration. You’ll gain appreciation for the traditions, values, and daily experiences of people who live in Vietnam, and discover similarities and differences among the lives of children in the U.S. and in Vietnam.

Code.org

Computer Science Education Week - December 3-9, 2018

https://cstedweek.org/
December 3-9, 2018. Try an Hour of Code. Website is full of resources you can use to spend some time learning about computer science and having an experience with coding.

David Brower Center

Art/Act: Brian Skerry – SHARKS

https://browercenter.org/exhibitions-programs/
(September 21, 2018 – February 14, 2019) The David Brower Center is pleased to kick off our multi-year partnership with National Geographic with the exhibition, Art/Act: Brian Skerry – SHARKS which will present his comprehensive body of photographic work in an immersive exhibition that highlights Skerry’s unique combination of passion, skill, and technique, and explore what it takes to make these powerful images.

DiscoverE

National Engineers Week - February 17-23, 2019

http://www.discovere.org/our-programs/engineers-week
Engineers Week—the only event of its kind—is a time to:
* 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

https://www.exploratorium.edu/curious-contraptions
(November 8–January 20, 2019) Curious Contraptions: Inside the Fairy Tale Factory explores small, surreal worlds through the charming, often hilarious mechanical sculptures known as automata. These whimsical machines are brought to life by intricate arrangements of handmade cams, cranks, and other simple mechanisms. Each sculpture performs an absurd miniature drama—sometimes a myth or fairy tale—while also reflecting its maker’s worldview and sense of humor. Exposed inner workings and low-tech mechanisms invite the viewer to understand how each automata comes to life. Artists include Keith Newstead, Wanda Sowry, Carlos Zapata, Paul Spooner, Fi Henshall, Kazu Harada, and others.

Hayward Shoreline Interpretive Center

Preserving Views - Art Exhibit

http://www.haywardrec.org/401/Exhibits
(October 20, 2018 - January 6, 2019) As a local artist, Kelly Otsuka produces oil paintings based on familiar landscapes around the Bay Area. In her solo show, Preserving Views, the artist's pieces will feature nature studies that concentrate on the sometimes overlooked hidden beauty in and around the Hayward Shoreline Interpretive Center. Artist Reception: Saturday, October 20th, 2:00pm - 4:00pm Refreshments provided
Oakland Museum of California

The World of Charles and Ray Eames

http://museumca.org/exhibit/world-charles-and-ray-eames

October 13, 2018–February 17, 2019

Fueled by their belief in design as a way of life, the innovative husband and wife duo Charles and Ray Eames were two of the most influential designers of the twentieth century. Go beyond their most well-known designs in this intimate and inspiring exhibition portraying their legacy and lives in California. The Eameses—who founded The Eames Office—valued knowledge and discovery, embraced the joy of trial and error, and saw no separation between life and work. Through multi-media installations, films, rare prototypes, photography, furniture, toys, products, as well as personal letters, drawings, and artwork, discover the story of the Eameses from a fresh perspective. Explore the breadth of their work across many fields in this interactive exhibition that brings their ideas and playful spirit to life.

Cruisin' the Fossil Coastline

http://museumca.org/exhibit/cruisin-fossil-coastline

November 10, 2018–March 17, 2019

Drop back in time to see the natural environment of California in a new way. Discover the connections between art and science through fantastically colorful renderings by artist Ray Troll and the research of paleontologist Kirk Johnson, who made an incredible journey to map the ancient world with a fresh perspective. Together, the fossil-loving scientist and his artist friend paint a vivid picture of the land and creatures that once roamed the West Coast thousands of years ago. Learn how fossils teach us about how California's landscape, plants, and animals have evolved over millions of years. With the addition of sculpture, maps, a giant sloth—or Paramylodon harlani—and other fossils and bones from the collections of OMCA and the California Academy of Sciences, and a fun hands-on activity, this exhibition will thrill fossil fans and curious culture-seekers alike. The exhibition is organized by the Anchorage Museum.

Take Root: Oakland Grows Food

http://museumca.org/exhibit/take-root-oakland-grows-food

Through November 2019

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

Randall Museum

San Francisco

Randall Museum Re-Opens

http://www.randallmuseum.org/

Re-Opened February 2018

The Randall Museum is a natural history museum, science museum and arts center in one, offering hands-on learning through exhibits and classes in science, nature and art to all ages. The museum has many fun things to do with kids and adults alike, including live animal encounters and drop-in activities.

SF Botanical Garden & Strybing Arboretum

San Francisco

Art Exhibit: A Gardener's Herbarium: The Art of Pressed Botanicals

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

September 1 - December 29, 2018

San Francisco Botanical Garden Society presents A Gardener's Herbarium: The Art of Pressed Botanicals, by Marybeth Kampman and Cindy LaMar. We are pleased to exhibit Marybeth and Cindy’s beautiful artwork in their first exhibition at the Helen Crocker Russell Library.
CRS Team

Staff & Program Support
Teresa Barnett, Executive Director
Tyler Chuck, Senior Manager of Engagement and Outreach
Corinn Brown, Teacher Services Manager
Michelle Fabros, Education Outreach & Evaluation
Greg D’Arezzo, Strategic Growth Planning
Darlene Yan, Project Coordinator
Betsy Mitchell, Project Coordinator
Julia Roma, Program Assistant
Vivianna Juncal, Program Assistant
Erin Creel, Campus Coordinator

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Diana Velez, President
Susan Kattchee, Vice President
Lisa Wahl, Secretary
Justin Curley, Treasurer
Anne Barengrer
Rodney Turner
Claudio Vargas
Phoebe White
Robert Bergman, Emeritus
Nicki Norman, Emeritus

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Oakland, CA
Permit # 35

“CRS is an amazing organization, and the BASIS program volunteers are phenomenal. Having volunteers who are actually in the field of science helps my students see that is something they can do when they grow up too.”

- OUSD Teacher

Emeryville students delight in discovering the hidden colors inside their markers, with a Bayer employee volunteering to lead a Day of Science activity for an entire elementary school.

Students discover that close observation of shells, feathers, minerals -- even your friend -- lead to amazing discoveries, during a lesson on observational sketching at an Oakland school.