Science & Environmental Literacy

APRIL 2022-SANTA CLARA COUNTY OFFICE OF EDUCATION



The theme for <u>#EarthDay2022</u> on April 22nd & <u>#EarthMonth2022</u> is "<u>Invest in Our Planet</u>," to highlight the need to preserve and protect our health, our families, and our livelihood.

- For resources on Earth Month and Earth Day check out the following resources:
 - <u>EarthDay.org</u> & their <u>Education Resource Library</u>
 - Half-Earth Project
 - EAP Earth Day
 - JPL NASA Earth Day Resources
 - Project Learning Tree Earth Day Resources
 - KQED Eco-Literacy Resources

We are excited to share with you the details of our FREE Virtual **Environmental Literacy Summit: An Open Space for Cultivating Hope and Action** that will take place on April 30th from 9am-1pm. If you would like to attend this FREE event, please register at https://na.eventscloud.com/669352 or see the flyer below for more information.

We also want to again extend an invitation to join our Community of Practice to support school garden initiatives:

Growing Gardens Community of Practice (CoP) - Are you in charge of your school's garden
but don't have a green thumb? Do you want to start a new garden or revive one from
disrepair? Are you looking for ways to incorporate gardens into your curriculum? No
problem, we have just the community for you! Join us in our launch of our newest CoP to
support sustainable school gardening initiatives. Our sessions are designed for
collaboration & networking to support wherever you are in the process.

If any of these sessions sound interesting to you, see the next section for the registration link.

WHAT DOES THE SCCOE SCIENCE TEAM DO?

We are here to support ALL educators (teachers, TOSAs/Instructional Coaches, paraeducators, and administrators) in their implementation of NGSS, embedding environmental literacy and

sustainability into content areas, and building and sustaining school garden initiatives through coaching, professional learning, strategic planning, and technical assistance.

HOW CAN THE SCCOE SCIENCE TEAM HELP OUR DISTRICT/SCHOOL?

Feel free to reach out to our team via email.

Jennifer Mutch at Jmutch@sccoe.org

Tara Sikorski at Tsikorski@sccoe.org

We are here to support your high quality science and environmental literacy instruction.



ENVIRONMENTAL LITERACY SUMMIT BY THE SANTA CLARA COUNTY OFFICE OF EDUCATION









An Open Space for Cultivating Hope and Action

For Leaders and Members of the Educational Community

...a space to grow and nurture environmental literacy in our educational community, share practical resources, and deepen our collective knowledge and skills to plant the seeds for sustainability.

Saturday, April 30

Register at https://na.eventscloud.com/669352

Keynote Speaker

Session Strands:



Learning from Indigenous Knowledge

Action & Advocacy in the Community

Teaching Climate Literacy with Hope

Dilafruz Williams, Ph.D.

9:00 a.m.-1:00 p.m.

For more information contact Violet DeJesus at vdejesus@sccoe.org











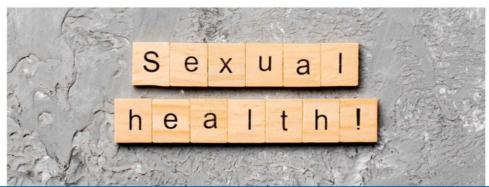


Register Here: Environmental Literacy Summit

COMPREHENSIVE SEXUAL HEALTH EDUCATOR NETWORK







Comprehensive Sexual Health Educator Network

Join this Network to discuss:

- Best practices for implementing CHYA-compliant Sexual Health Education
- CA Health Education Framework
- · Updates from the State and community partners
- · District sharing and network opportunities

Purpose of CSE Network

The Comprehensive Sexual Health Educator Network brings together school districts, COE staff and community partners to discuss CSE implementation. The network provides content expertise and resources to support the development of educational programs and school policies that promote student health and well-being.

County Partners

The SCCOE and SMCOE hosts the CSE Network in partnership with CARDEA Services and the Adolescent Pregnancy Prevention Network (APPN – a collaborative led by the Santa Clara County Public Health Department)

For more information, please contact:

Tara Sikorski • Science Coordinator • tsikorski@sccoe.org
Doron Markus • CTE & STEM Coordinator • dmarkus@smcoe.org

Dates:

October 20, 2021 February 16, 2022 April 27, 2022

Time: 9 to 10:30 a.m.

Location:

Zoom

Audience:

K-12 administrators, TOSAs, and teachers responsible for coordinating CSE implementation in Santa Clara or San Mateo County districts & schools

Grade Level(s): K – 12 Registration:

https://na.eventscloud.com/634682







Register Here: CSE Network

The next meeting is April 27, 2022

GROWING GARDENS COMMUNITY OF PRACTICE (COP)



1290 Ridder Park Drive San Jose, CA 95131 www.sccoe.org



Growing Gardens Community of Practice (CoP)

The Santa Clara County Office of Education invites all TK-12 educators, TOSAs (Teachers on Special Assignment), administrators, garden coordinators, maintenance and operations, and after school garden education providers/staff to the "Growing Gardens Community of Practice (CoP).

During this Community of Practice we will:

- Collaborate and network with colleagues who support school gardens and/or outdoor learning spaces
- · Explore partnerships to create and maintain sustainable systems for school gardens and/or outdoor learning spaces
- · Share resources and ideas about the creative use of school gardens and outdoor learning spaces for both academic instruction and social emotional learning
- Learn about the best practices for designing, developing and maintaining school gardens and/or outdoor learning spaces.

For more information, please contact:

Jennifer Mutch • Science Coordinator •

jmutch@sccoe.org

Tara Sikorski • Science Coordinator • tsikorski@sccoe.org



Dates:

Monday, January 31, 2022 Monday, February 28, 2022 Monday, March 28, 2022 Monday, April 25, 2022 Monday, May 23, 2022

Time: 4 to 5:30 p.m.

Location: Virtual + 1 in-person field

trip on May 23, 2022

Audience:

TK-12 Educators, TOSAs, Administrators, Garden Coordinators, Maintenance and Operations, After School Garden Education Providers/Staff

Grade Level(s): TK - 12

Cost: FREE

Registration:

https://na.eventscloud.com/657647

Register Here: Growing Gardens CoP

The next meeting is April 25, 2022

2021-2022 ENVIRONMENTAL LITERACY LEADERSHIP COLLABORATIVE



1290 Ridder Park Drive San Jose, CA 95131 www.sccoe.org



2021-2022 Environmental Literacy Leadership Collaborative

The Environmental Literacy Leadership Network is a collaborative that will explore ways to infuse environmental literacy into classrooms and schools.

We will develop a vision for environmental literacy and sustainability, build partnerships, and connect formal and informal educators in Santa Clara County.

Dates:

Thursday, September 23, 2021

Thursday, October 21, 2021

Thursday, November 18, 2021

Thursday, January 20, 2022

Thursday, February 24, 2022

Thursday, March 24, 2022

Thursday, April 21, 2022

Thursday, May 19, 2022

Time: 3 to 5 p.m.

Location:

Virtual via Zoom

Audience:

TK-12th Grade Teachers, History/ Social Science Teachers, Health Teachers, Science Teachers, TOSA's, Instructional Coaches, Informal Environmental Educators, and Community Based Partners

Grade Level(s): TK - 12

Registration:

https://na.eventscloud.com/618910

For more information, please contact:

Jennifer Mutch • Science Coordinator • (408) 453-6691 • jmutch@sccoe.org

REGISTER HERE: Environmental Literacy Collaborative

The next meeting is April 21, 2022

2021-2022 TOSA AND INSTRUCTIONAL COACHES
NETWORK MEETING



1290 Ridder Park Drive San Jose, CA 95131 www.sccoe.org



2021-2022 TOSA & Instructional Coaches Network Meeting

Santa Clara County Office of Education invites all Coaches, Mentors and TOSAs (Teachers on Special Assignment) to the: 2021-2022 TOSA & Instructional Coaches Network Meetings

- Develop your leadership skills as you learn more about supporting teachers with content, pedagogy, and technology.
- Network with other instructional leaders across Santa Clara County.
- Explore how to support teachers with Project Based Learning (PBL), Universal Design for Learning (UDL), integration of content areas, equity, and inclusion.

Dates:

October 19, 2021 November 16, 2021 January 18, 2022 February 22, 2022 March 22, 2022 April 19, 2022 May 17, 2022

September 21, 2021

Time: Noon to 2 p.m.

Location: Virtual via Zoom

Audience:

TOSA's, Mentors, Coaches

Grade Level(s): TK – 12

Registration:

https://na.eventscloud.com/618909

For more information, please contact:

Jennifer Mutch • Science Coordinator • (408) 453-6692 • jmutch@sccoe.org

REGISTER HERE: TOSA & Instructional Coaches Network

The next meeting is April 19, 2022

PLISD Catalog

Partner Workshops & Events

WE LOVE EARTH FESTIVAL



LEARN. HAVE FUN. TAKE ACTION.

Register Here: We Love Earth Festival

ARBOR DAY CELEBRATION AND TREE PLANTING

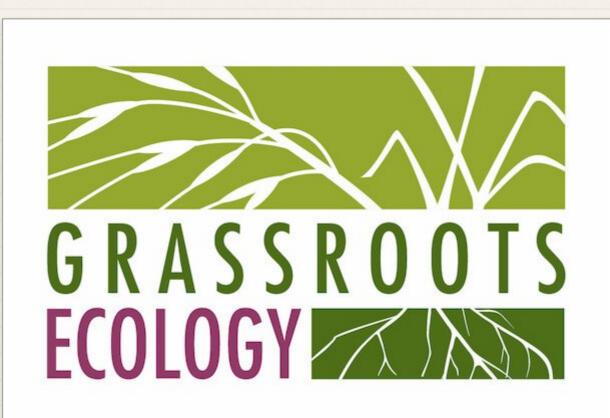


Friday, April 29, 2022 at 12:00 pm

South County Annex: 9300 Wren Ave, Gilroy, CA 95020

The County of Santa Clara Office of Sustainability and Santa Clara County Office of Education are hosting an in person National Arbor Day event focused on the benefits of planting trees at schools and in the surrounding communities. Key insights will be shared on how trees play an important role in combating climate change and steps to actively engage students in environmental topics. Please join us to learn more about the benefits of trees, environmental youth engagement, planting opportunities, and more!

Register Here: Arbor Day Celebration and Tree Planting



SUMMER 2022 YOUTH STEWARDS

This is an outdoor volunteer and educational experience available for local students in high school, middle school, or community college. The program is a **2.5 hour per week commitment** from mid-June 2022 to the end of July 2022.

Grassroots Ecology Youth Stewards have the opportunity to meet new people, make a positive difference in their community, and spend time outdoors. Volunteers work in small cohorts at one of our many project sites throughout Santa Clara and San Mateo Counties. Activities include caring for native plants, removing invasive weeds, maintaining essential wildlife corridors, and learning about the environment around them from our expert staff.

Learn more and fill out the interest form below. **Priority deadline to complete the interest form** is **May 1, 2022**.

Complete Interest Form Here: Summer 2022 Youth Stewards

ALVISO BURROWING OWL PROJECT

Alviso Burrowing Owl Project

Friday, April 8th, 2022 9:00am - 12:00pm

Spend your morning at Grassroots Ecology's native plant revegetation project to support the threatened South Bay burrowing owl population.

150 Nortech Pkwy, San Jose 95134





Register Here: Alviso Burrowing Owl Project

VOLUNTEER AT MCCLELLAN RANCH PRESERVE

VOLUNTEER AT McCLELLAN RANCH PRESERVE

Sunday, April 10th, 2022 9 AM - 12 PM

Help us restore habitat and increase biodiversity!

22221 McClellan Rd, Cupertino, CA, 95014





Register Here: Volunteer at McClellan Ranch Preserve

NATURE'S RAINBOW: LGBTQ+ WILDFLOWER WALK AT FOOTHILLS NATURE PRESERVE

NATURE'S RAINBOW: LGBTQ+ WILDFLOWER WALK

Sunday, April 10th, 2022 10:00am - 1:00pm

Join us to explore wildflowers of the Santa Cruz Mountains!

Foothills Nature Preserve 3300 Page Mill Road Palo Alto, CA 94304





Register Here: Nature's Rainbow: LGBTQ+ Wildflower Walk

VOLUNTEER AT RUSSIAN RIDGE PRESERVE

VOLUNTEER AT RUSSIAN RIDGE PRESERVE

Monday, April 11th, 2021 9:00am - 12:00pm

Help us restore an essential wildlife habitat!

Russian Ridge Open Space Preserve Intersection of Page Mill Rd and Skyline Blvd

G R A S S R O O T S ECOLOGY



Register Here: Volunteer at Russian Ridge Preserve

VOLUNTEER AT BYRNE PRESERVE

VOLUNTEER AT BYRNE PRESERVE

Wednesday, April 13, 2022 9:00am - 12:00pm

Join us to restore biodiversity in a creekside ecosystem!

27210 Altamont Road Los Altos Hills, CA 94022





Register Here: Volunteer at Byrne Preserve

VOLUNTEER AT REDWOOD GROVE NATURE PRESERVE

VOLUNTEER AT REDWOOD GROVE NATURE PRESERVE

Saturday, April 16th, 2022 9:00am - 12:00pm

Help us restore a small redwood forest habitat!

482 University Ave. Los Altos, CA 94022





Register Here: Volunteer at Redwood Grove

VOLUNTEER AT COOLEY LANDING

VOLUNTEER AT COOLEY LANDING

Saturday, April 23rd 2022 9:00am - 12:00pm

Trash cleanup of salt marsh habitat

Cooley Landing Education Center 2100 Bay Road East Palo Alto, CA 94303





Register Here: Volunteer at Cooley Landing

VOLUNTEER AT FOOTHILLS NATURE PRESERVE

VOLUNTEER AT FOOTHILLS NATURE PRESERVE

Saturday, April 30th, 2022 9:00am - 12:00pm

Help us restore an essential California wildlife corridor!

Foothills Nature Preserve 3300 Page Mill Road Palo Alto, CA 94304





Register Here: Volunteer at Foothills Nature
Preserve

VOLUNTEER AT COOLEY LANDING

VOLUNTEER AT COOLEY LANDING

Saturday, April 30th 2022 9:00am - 11:00am

Community restoration of salt marsh habitat in partnership with Midpen

Cooley Landing Education Center 2100 Bay Road East Palo Alto, CA 94303







Register Here: Volunteer at Cooley Landing

City Nature Challenge 2022

April 29 -May 2

Taking pictures of wild plants and animals.

May 3 -May 8

identifying what was found.







Share!

Take a Picture

Click Here for More Info. About City Nature Challenge

CALIFORNIA ASSOCIATION OF SCIENCE EDUCATORS (CASE)



CALL FOR PROPOSALS!

California Science Education Conference October 14-16, 2022 | Palm Springs, CA CALL FOR PROPOSALS NOW OPEN!

Are you looking for an opportunity to share your knowledge and expertise in an area of science education? Are you eager for face to face interaction in a welcoming and friendly environment? Do you want to travel to sunny Palm Springs? If you answered yes to any of these questions, submit your proposal for the 2022 California Science Education Conference today! Choose from either of the following proposal options:

90-minute workshop

Short Course (choose between 3 or 6 hours)

PROPOSALS ARE DUE BY FRIDAY, APRIL 29, 2022

Submit a Proposal Here!

CALIFORNIA ACADEMY OF SCIENCE TEACHER
WORKSHOPS



SWAMP IN A BOTTLE



BUSES AND BIOFUELS: SUSTAINABLE TRANSPORTATION



Grade level: 6-10 **Length**: 4 minutes

NGSS Disciplinary Core Ideas: MS-ESS3.A, MS-ESS3.C, MS-ESS3.D, MS-ETS1.1

For Video Discussion Questions and Accompanying Activity, please visit https://www.calacademy.org/educators/buses-and-biofuels-sustainable-transportation? https://www.calacademy.org/educators/buses-and-biofuels-sustainable-transportation? https://www.calacademy.org/educators/buses-and-biofuels-sustainable-transportation? https://www.calacademy.org/educators/buses-and-biofuels-sustainable-transportation https://www.calacademy.org/educators/buses-and-biofuels-sustainabl



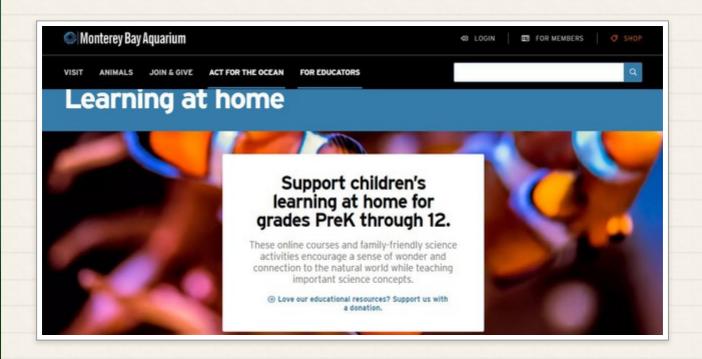
The Tech Interactive



Partner Resources



Exploratorium - Learning Toolbox



Monterey Bay Aquarium Learning at Home Resources



AMGEN Biotech Experience

Scientific Discovery for the Classroom San Francisco Bay Area

ABE SUMMER 2022 COMPLETE SERIES WORKSHOP

This workshop trains teachers in the ABE Complete Series, including plasmid digest and ligation, gel electrophoresis, bacterial transformation, protein purification, and colony PCR. We

welcome new-to-ABE teachers, ABE teachers who have attended the Abridged Series PD, and teachers who would like to repeat the Complete Series Workshop. This summer we will be prioritizing new teachers, followed by teachers who have attended only the Abridged Series PD, and will maintain a waitlist for all other teachers depending on how many people sign up. Note that you must provide proof of vaccination to attend, and we anticipate that masks will be required throughout the workshop. Subject to change, courtesy of the ongoing pandemic!

Dates: Monday, June 13 - Friday, June 17

Times: 9:00am-4:00pm each day

Location: The Lawrence Hall of Science, Berkeley, CA

Register for Full Workshop Here

Register for PCR Only Here (you MUST have already completed a Complete Series ABE PD)

For more information, contact Maia Binding at mbinding@berkeley.edu

PROTEIN PURIFICATION COLUMN "MAKE AND TAKE" WORKSHOP

ABE is considering hosting a workshop in Fall 2022 for teachers already trained in protein purification who would like to make their own set of protein purification columns to use at their schools. Participants would make a class set of columns, learn about column maintenance and trouble-shooting, and leave with a class set of columns, column stands, and accessories. We would limit it to one set of columns per school, but would be happy to have multiple teachers attend, as long as all participants have completed the Complete Series Workshop prior to attending (which would include Summer 2022 participants). We would like to gauge the level of interest in this possibility. If you think you would be interested in this workshop, please fill out this <u>brief survey</u>.



Acterra Presents the

Spring 2022 Acterra Lecture Series: Climate, Drought, and Fire

Environmental and Social Justice Awareness
Days

Earth Calendar or Eco Calendar

SJSU UNIVERSAL DESIGN FOR LEARNING

Universal Design for Learning

Session Descriptions:

- 1. Engagement- Building and Sustaining Student Buy In & Community
- 2. Engagement- Cultivating Expert Learners
- 3. Multiple Means of Representation-Eliminating Barriers
- 4. Multiple Means of Representation- Effectively using Instructional Technology
- 5. Multiple Means of Action and Expression- Authentic Assessment
- 6. Multiple Means of Action and Expression- Supporting Inquiry Based Learning
- 7. Becoming UDL Site Leaders

Why Participate?

Experience informational sessions, practical teaching, and guided reflections focused on Universal Design for Learning (UDL)

Who can participate:

Teachers of primarily 11th and 12th grade currently teaching in the East Side Union High School District

Days & Time:

Tentative: February 7 March 7 March 21 April 4 April 18 May 9 May 23

(4:00 - 5:30 pm)

Lead Facilitator:

Matthew Love, PhD SJSU Faculty in Special Education

Program delivery:

- Online
- Classroom implementation
- Asynchronous work

*Participate in all or some sessions!

*Earn up to 7 CEUs for full program participation

Contact:

Vanessa Vitug vitugv@esuhsd.org

Virginia Lehmkuhl-Dakhwe virginia.lehmkuhldakhwe@sjsu.edu

Complete the interest form



Universal Design for Learning

Program Description:

Teachers can earn **one** CEU for each of the seven sessions completed, up to a maximum of 7 CEUs.

Session activities are meant to be embedded in teachers' practice. Each session will require about 10 hours of time to complete (70 hours for full program completion).

For each session:

- **Four hours will be spent in synchronous meetings, conducting readings and reviewing case studies.
- **Six hours will be spent creating lesson plans, conducting a pre-implementation meeting with a course facilitator, implementing and recording lessons, and engaging in reflection and debrief activities.

Requesting CEU:

- -Teachers complete a Survey with name, contact information, and SJSU course history.
- -At the end of the 7 sessions, facilitators will report for each teacher CEUs earned and will complete CEU purchase orders. Teachers can earn between 1-7 CEUs across the sessions. Facilitators will keep track of the number of CEUs earned for each teacher.
- -Teachers will receive transcript ordering information via email after completing the sessions and receiving notification from a facilitator that CEUs were earned.



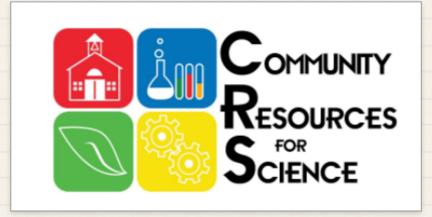
Complete Interest Form Here: SJSU UDL



Community Resources for Scien...

crscience.org

Early science education is crucial for children's academic success, yet is too often missing from California schools. CRS empowers teachers and scientists to bring science and engineering learning to life for children. Children build understanding of their world through exploration, while discovering their own talents and interests.



CRS-ARC-GIS Educator Resources

There is also an ARC-GIS webinar series for Educators (3rd-12th Grade): https://docs.google.com/forms/d/1ap_jzkOQSMxTl6fit8RQ3JeROu18jC4P3tEEmLuculM/edit

NEW JOURNAL ON CLIMATE CHANGE FROM CASE



Click Here to Read the California Journal of Science Ed

NAVIGATING THE POLITICAL DIMENSIONS OF CLIMATE CHANGE TEACHING AND LEARNING FROM STEM TEACHING TOOLS

Click Here to Read the STEM Teaching Tools

ENVIRONMENTAL LITERACY COMMUNITY BASED PARTNER HUB

Environmental Literacy Community Based Partner Hub

A new website that features Community Based Partners that provide environmental education based experiences.

LAWRENCE HALL OF SCIENCE RELEASES UPDATED OUTDOOR LEARNING GUIDANCE

When the <u>National COVID-19 Outdoor Learning Initiative</u> was launched in the summer of 2020, as a joint effort between founding partners Ten Strands, the Lawrence Hall of Science, Green Schoolyards America, and San Mateo County Office of Education, it was done to disrupt the educational inequities that were exacerbated by COVID-19. Since then, the intersection of new learning models and funding has created an opportunity to redefine the educational experience and better serve students, families, and communities. Read more here: <u>The Lawrence Hall of Science Releases New Guidance For Implementing Outdoor Learning - Ten Strands</u>







SCCOE

https://www.scc-enviro-ed.org/

WALDEN WEST

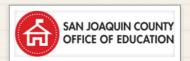
http://www.waldenwest.org/

CAFL I

https://ca-eli.org/







SMCOE

https://eeproviders.smcoe.org

SANTA CRUZ COE

https://sites.google.com/view/ environmental-literacy-forall/professional-learning

SJCOE

https://www.sjcoescience.org/ environmental-literacy.html







VALLEY WATER

https://www.valleywater.org/
Distance Learning Resources:
Distance Learning NEW FOR
2020 | Santa Clara Valley Water

EVOLS

https://www.evols.org/
Distance Learning and COVID
Modified Resources:
2020/21 Programs (COVID
Modified) | Environmental

Volunteers - Environmental Volunteers (evols.org)

LIVING CLASSROOM

https://www.livingclassroom.org/

More Environmental Literacy Resources and Partners Featured on the SCCOE and SMCOE

Environmental Literacy websites above.



ISTEAM - SCIENCE & ENVIRONMENTAL LITERACY



The mission of the Science Department is to provide service and support for all educational stakeholders. We offer workshops, conferences, and student events that promote the Next Generation Science Standards (NGSS).

Science explores and explains phenomena around us. It is a way of gaining, organizing, applying, and conveying knowledge of that phenomena. Having science as one of the core contents in K-12 education is vital as it influences our culture and has allowed society to flourish.



1290 Ridder Park Drive, San Jo...







SCCOE Science Google Webpage

For even more resources, workshops and upcoming conferences, please visit our webpage. We are updating this weekly. Please also let us know if you have any events or workshops that you would like to share.

