

# Science & Environmental Literacy

FEBRUARY 2022 - SANTA CLARA COUNTY OFFICE OF EDUCATION

HAPPY LUNAR NEW YEAR! 🐯

The lunar calendar, depicting the phases of the moon, is a beautiful example of the crosscutting concept of patterns that exist in nature. A new moon in the night sky also gives us an opportunity to reflect on the scale of our universe and our role within it. In the moment of pause and reflection, we want to wish all who celebrate the lunar new year one of health, good fortune, peace, and prosperity.

In this month's newsletter, we want to highlight resources to use during Black History Month. Celebrate the contributions of Black scientists by doing science through the use of these curated Exploratorium Snacks: <https://www.exploratorium.edu/snacks/collection/celebrate-black-history>. You can also highlight the current contributions of Black female scientists by using profiles from the If/Then Collection: <https://www.ifthencollection.org> or the IAmAScientist Collection: <https://www.iamascientist.info/collection>. 🇺🇸

Interested in doing more? We also have our upcoming mini-series that starts in March and focuses on equitable outcomes for ALL students:

- *Antiracism & Social Justice in the Science Classroom* - Join us in creating a community of science educators who are open to engaging in conversations about equity, antiracism, and social justice. We'll explore what these terms mean/look like in the context of our work and support each other in the next steps on our journey towards humanizing the pursuit of science. We'd love to have you join us wherever you are in your equity work!

We also want to extend an invitation to join our new 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.

**Last but not least, save the date for our Environmental Literacy Summit on Saturday April 30, 2022. Stay tuned for more information!**

#### **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 & 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](mailto:Jmutch@sccoe.org)

Tara Sikorski at [Tsikorski@sccoe.org](mailto:Tsikorski@sccoe.org)

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

## **Upcoming Events**



# 2021 LEADERSHIP & LEARNING SERVICES CATALOG



 Santa Clara County  
Office of Education

## PLISD CATALOG

2021-2022 Professional Learning and Instructional Support Division (PLISD) Catalog

# 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](mailto:tsikorski@sccoe.org)  
Doron Markus • CTE & STEM Coordinator • [dmarkus@smcoe.org](mailto: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

GROWING GARDENS COMMUNITY OF PRACTICE (COP)



## 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](mailto:jmutch@sccoe.org)

Tara Sikorski • Science Coordinator •

[tsikorski@sccoe.org](mailto: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 February 28, 2022

ANTIRACISM & SOCIAL JUSTICE IN THE SCIENCE  
CLASSROOM



## Antiracism & Social Justice in the Science Classroom

Santa Clara County Office of Education invites all TK-12 Educators, TOSAs (Teachers on Special Assignment) and Administrators to the Antiracism & Social Justice in the Science Classroom Series in Spring 2022.

This series will explore the conditions of an antiracist science classroom along with the intentional integration of critical literacy and social justice based phenomenon into lesson sequences in order to humanize the pursuit of science and engage students in authentic sense-making.

**Session Topics:**

- Session 1:** Equity, Anti-racism, and Social Justice. Oh my!
- Session 2:** Identity & Intersectionality in Science Classrooms
- Session 3:** Classroom Culture, Student Status, & Discourse
- Session 4:** Humanizing the Pursuit of Science

**For more information, please contact:**  
Tara Sikorski • Science Coordinator •  
[tsikorski@sccoe.org](mailto:tsikorski@sccoe.org)



**Dates:**

Wednesday, March 23, 2022  
Wednesday, March 30, 2022  
Wednesday, April 6, 2022  
Wednesday, April 13, 2022

**Time:** 4 to 5:30 p.m.

**Location:** Virtual

**Audience:**

TK-12 Educators, TOSA's, and Administrators

**Grade Level(s):** TK – 12

**Cost:** \$160

**Registration:**

<https://na.eventscloud.com/655609>


REGISTER HERE: ANTIRACISM & SOCIAL JUSTICE

## VALLEY WATER & SCCOE ENVIRONMENTAL LITERACY EDUCATOR COHORT

**WE STILL HAVE SPACES AVAILABLE!!**


We can catch you up with the first session (it was recorded). Our next session is on March 16, 2022. Contact Jenn Mutch if you are interested. [jmutch@sccoe.org](mailto:jmutch@sccoe.org)

This grant-funded project will establish a cohort of Teachers, TOSAs, and Instructional Coaches eager to learn about infusing water education, environmental literacy, and NGSS-based lessons and projects into your teaching. A stipend and classroom materials will be offered at the completion of the program.



Santa Clara County  
Office of Education

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



### Valley Water and SCCOE Environmental Literacy Educator Cohort

This grant funded project will establish a cohort of Teachers, TOSAs, and Instructional Coaches eager to learn about infusing water education, environmental literacy, and NGSS-based lessons and projects into your teaching. A stipend and classroom materials will be offered at the completion of the program.

If you are interested, please see the following requirements:

1. Attendance at all workshops and RAFT in-person seminar.
2. Development and implementation of 1 or more lessons or units that are water education, environmental literacy, and NGSS focused. More details will be provided throughout the cohort.
3. Partnering with Valley Water's Outreach Team to co-present lessons to classrooms throughout the 2021-2022 school year.
4. Present an overview of the lesson(s) and/or unit that was developed over the school year with a final reflection and student feedback. This presentation will be done at one of the dates in May.

**Dates:**

September 8, 2021- 3:30 to 5 p.m.  
November 3, 2021- 3:30 to 5 p.m.  
January 19, 2022- 3:30 to 5 p.m.  
March 16, 2022- 4 to 6:30 p.m.

May 18, 2022- 3 to 5 p.m. OR  
May 25, 2022- 3 to 5 p.m.

**Location:**

Virtual and In-person


**Audience:**

Educators, TOSAs, and Instructional Coaches

**Grade Level(s):** TK – 12

**Application Link (and more details):**

<https://forms.gle/DaXyyaJEGAgCAs66>



Valley Water

**For more information, please contact:**

Jennifer Mutch • Science Coordinator • (408) 453-6587 • [jmutch@sccoe.org](mailto:jmutch@sccoe.org)

## VALLEY WATER & SCCOE ENVIRONMENTAL LITERACY COHORT

The next meeting is March 16, 2022

## 2021-2022 ENVIRONMENTAL LITERACY LEADERSHIP COLLABORATIVE

Please join us for our next meeting on February 24th



## 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-12<sup>th</sup> 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](mailto:jmutch@sccoe.org)

REGISTER HERE: ENVIRONMENTAL LITERACY COLLABORATIVE

The next meeting is February 24, 2022

2021-2022 TOSA AND INSTRUCTIONAL COACHES  
NETWORK MEETING





## 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:**

September 21, 2021  
October 19, 2021  
November 16, 2021  
January 18, 2022  
February 22, 2022  
March 22, 2022  
April 19, 2022  
May 17, 2022

**Time: Noon to 2 p.m.**

**Location:**

Virtual via Zoom

**Audience:**

TOSA's, Mentors, Coaches

**Grade Level(s):** TK – 12

**Registration:**

<https://na.eventscld.com/618909>

**For more information, please contact:**

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

REGISTER HERE: TOSA & INSTRUCTIONAL COACHES NETWORK

The next meeting is February 22, 2022

# Partner Workshops & Events

## 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!**

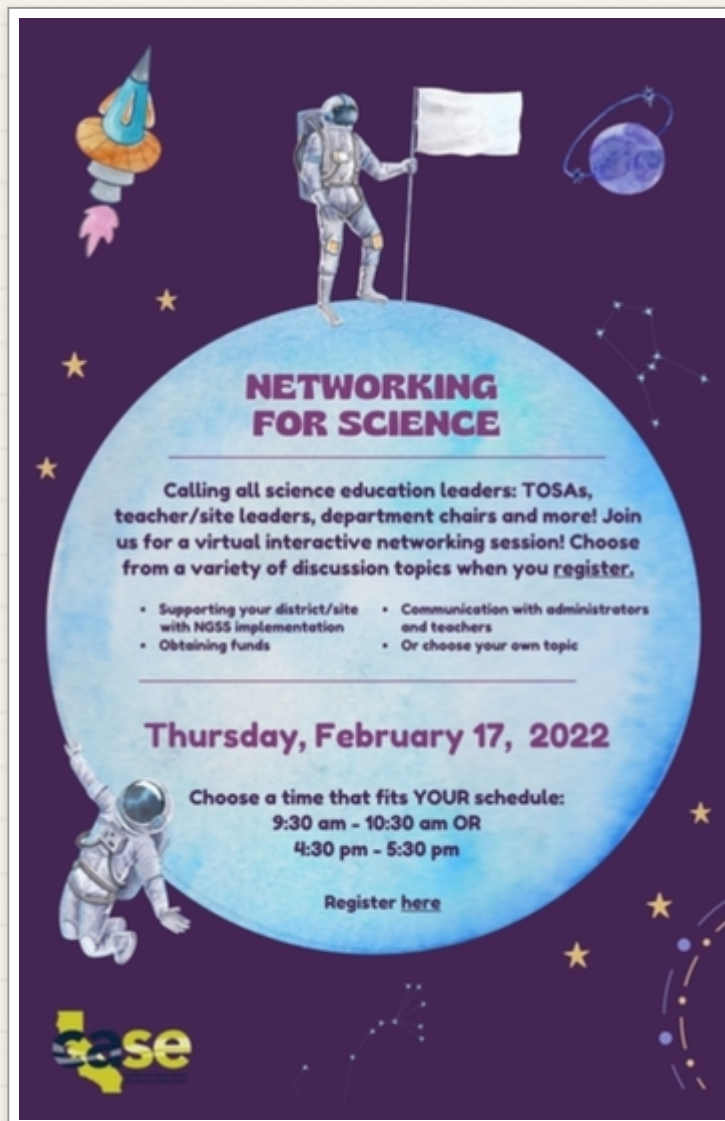
Are you looking for an opportunity to share your knowledge and expertise in an area of science education? Are you eager for face to face interaction in a welcoming and friendly environment? Do you want to travel to sunny Palm Springs? If you answered yes to any of these questions, submit your proposal 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)

[Submit a Proposal Here!](#)



REGISTER FOR "NETWORKING FOR SCIENCE" - FOR CASE MEMBERS

CA NGSS STATEWIDE IMPLEMENTATION



# CA NGSS Statewide Implementation

Online Professional Learning  
Building Student Sensemaking Through Disciplinary Literacy

**REGISTER AT CANGSS.ORG**

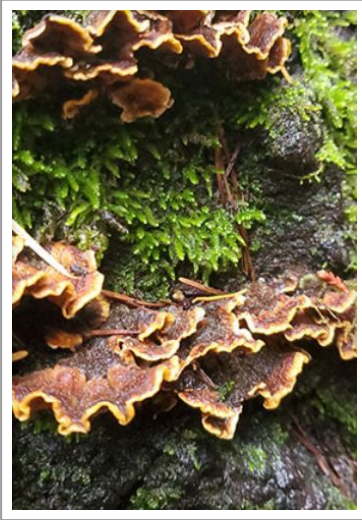
REGISTER HERE: CA NGSS STATEWIDE IMPLEMENTATION

Online Professional Learning-Building Student Sensemaking Through Disciplinary Literacy

## YOUTH SCIENCE INSTITUTE UPCOMING EVENTS



SCIENCE SAFARIS



Join us for upcoming Science Safaris at our Vasona and Sanborn locations! Our science safaris are educational programs that not only bring you and your family into nature, but we will also teach you facts about your surroundings that you may not have known! These guided Science Safaris will be led completely outdoors by a YSI staff member. **YSI's Science Safari programs are designed for families, so please register each attending member.**

## INSECT AND SALAMANDER SCAVENGER HUNTS AT SANBORN PARK

**Time:** 11:30am-1:00pm

**Cost:** \$25

Did you know that the breeding season for salamanders in California is November to March? This year, we are hosting several of these events between **January and March** for the chance to see these amazing creatures. Because we find other creatures in the same areas, why not learn about them as well! Each 90-minute science safari will allow you to search the areas around Sanborn with our experienced Instructors to learn about what you see. Remember, these animals love cool moist areas, so this event is rain or shine! Put on your mud boots and dress warm!

**Register Here:**

[February 12, 2022](#)

[February 19, 2022](#)

[March 5, 2022](#)

[March 19, 2022](#)

[March 26, 2022](#)

## OHLONE NATURE WALK AT VASONA

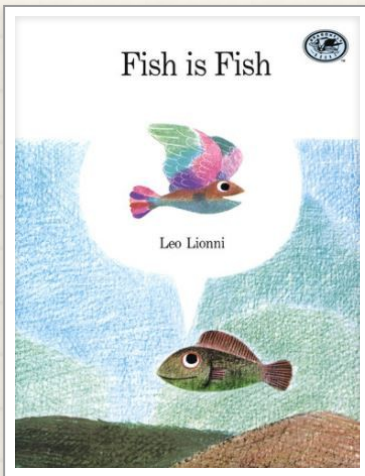
**Date:** February 26, 2022

**Time:** 11:00am-12:30pm

**Cost:** \$25

Learn about all the plants that the Ohlone Native Americans had access to while they survived here for years and years! From tree bark to berries and seeds, we will show you all sorts of local plants that have several uses! We will also walk along the lake to see what the Ohlone would have foraged for their successful survival.

REGISTER HERE: OHLONE NATURE WALK



## STORY TIME: FISH IS FISH

**Date:** February 26, 2022

**Time:** 1:00pm-1:30pm

**Location:** Vasona Lake County Park  
333 Blossom Hill Road Los Gatos, CA 95032

**Cost:** Free!

After we read the book together, we will meet a live YSI animal ambassador that lives in the water!

REGISTER HERE: FISH IS FISH

## STORY TIME: WHAT DO YOU DO WITH A TAIL LIKE THIS?

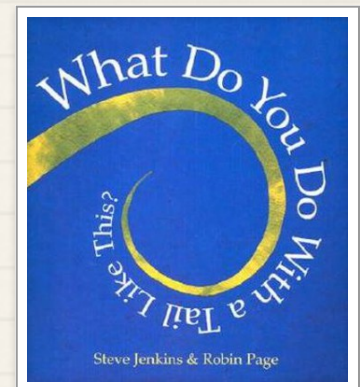
**Date:** March 12, 2022

**Time:** 1:00pm-1:30pm

**Location:** Vasona Lake County Park  
333 Blossom Hill Road Los Gatos, CA 95032

**Cost:** Free!

After we read the book, we will meet a couple of animals with tails!

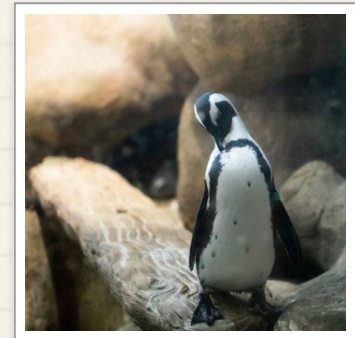


REGISTER HERE: WHAT DO YOU DO WITH A TAIL LIKE THIS?

# CALIFORNIA ACADEMY OF SCIENCE TEACHER WORKSHOPS



## AFRICAN PENGUINS: SCIENCE, STORIES, SPECIAL FRIENDS GRADES K-2: LIVESTREAM SERIES



This interactive series consists of three weekly consecutive sessions in one month. Each live session lasts approximately 30 minutes, is a lesson taught by a team of professional educators, and is broadcast to multiple classes at the same time **via**

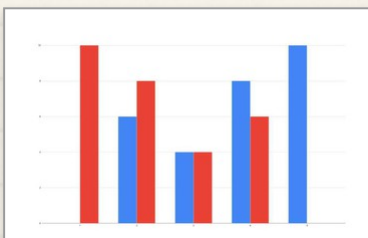
**YouTube Live**. Students will interact with the educators through browser-based polls and hands-on activities.

This program is designed for grades K-2, but all are welcome. Pick the language option that works best for your class:

- 10 am PT on Tuesdays (February 1, 8, & 15) for presentation in **English (ELL supported)**
- 10 am PT on Wednesdays (February 2, 9, & 16) for presentation primarily in **Spanish**
- 11 am PT on Wednesdays (February 2, 9, & 16) for presentation primarily in **Cantonese**

**\*Registration will close at 12pm PT on Tuesday, January 25**

[REGISTER HERE: AFRICAN PENGUINS LIVESTREAM SERIES](#)



## DIGGING INTO DATA (GRADES 6-12)

Support students in using data to draw conclusions and tell stories about the world. Prepare them to think critically about claims made based on data and correlations.

This three-hour online learning experience will be highly interactive and will engage you in small-group discussions and individual exploration. You will try out activities as a learner, as well as reflect with your peers on how to apply these ideas in your own teaching.

This workshop is designed for teachers of grades 6 - 12. All educators are welcome.

**Saturday, February 5, 2022**

**9:00 am to noon (Pacific time)**

**Cost: \$35**

**Registration will close on or before Friday, February 4.**

[REGISTER HERE: DIGGING INTO DATA WORKSHOP](#)

## THRIVING CALIFORNIA (GRADES 4-8)

By exploring the world around us, we can find clues that will tell us about California's past and present. What we learn can help us to shape solutions that will ensure a thriving California for the future.



Ecology and ecosystems are big concepts. In this workshop you will engage with some strategies that make them both accessible and relatable. These strategies will involve direct interactions with both the natural and the built environment around us.

You will be supported to figure out how the strategies we practice in this workshop might be translated for successful implementation in your unique teaching & learning context.

This workshop is designed for people who work with grades 4-8, but is not limited to that range and all educators are welcome.

**Saturday, March 12, 2022**

**9:00am - 12:00pm (Pacific Time)**

**Cost: \$35**

**Registration will close on or before Friday, March 11.**

[REGISTER HERE: THRIVING CALIFORNIA WORKSHOP](#)



# EXPLORING YOUR ENVIRONMENT WITH MATH AND SCIENCE (GRADES 3- 5)



What do scientists and mathematicians have in common, and how do they work together? Experience model activities that bring together math practices and science practices and support students to succeed at both. These activities will also get students outside and exploring their local environment. Workshop participants will reflect on the experience and discuss ways to apply these pedagogical strategies in your own context. This three-hour online learning experience will be highly interactive and will engage you in small-group discussions and individual exploration.

This workshop is designed for teachers of grades 3 - 5. All educators are welcome.

**Saturday, March 19, 2022**

**9:00am - 12:00pm (Pacific Time)**

**Cost: \$35**

**Registration will close on or before Friday, March 18.**

[REGISTER HERE: EXPLORING YOUR ENVIRONMENT WORKSHOP](#)

## SWAMP IN A BOTTLE

Swamp in a Bottle | California Academy of Sciences



# BUSES AND BIOFUELS: SUSTAINABLE TRANSPORTATION

Buses and Biofuels: Sustainable Transportation | California Academy of Sciences



**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?utm\\_campaign=educator\\_eneews\\_20211129&utm\\_medium=email&utm\\_source=Mailjet](https://www.calacademy.org/educators/buses-and-biofuels-sustainable-transportation?utm_campaign=educator_eneews_20211129&utm_medium=email&utm_source=Mailjet)



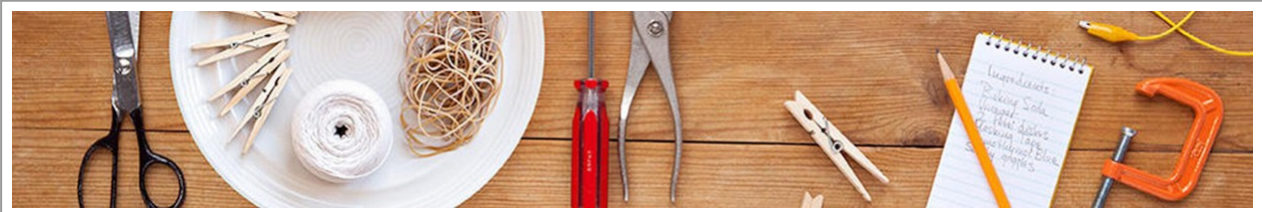
**The Tech Interactive**

THE TECH INTERACTIVE

## The Tech Challenge 2022: Kinetic Commotion



## Partner Resources



EXPLORATORIUM- LEARNING TOOLBOX

Monterey Bay Aquarium

LOGIN FOR MEMBERS SHOP

VISIT ANIMALS JOIN & GIVE ACT FOR THE OCEAN FOR EDUCATORS

# Learning at home

**Support children's learning at home for grades PreK through 12.**

These online courses and family-friendly science activities encourage a sense of wonder and connection to the natural world while teaching important science concepts.

© Love our educational resources? Support us with a donation.

## MONTEREY BAY AQUARIUM LEARNING AT HOME RESOURCES

# Teacher Opportunities

**Acterra**

**YOU(TH)**  
**BE THE**  
**CHANGE**

*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](mailto:vitugv@esuhsd.org)

Virginia Lehmkuhl-Dakhwe  
[virginia.lehmkuhldakhwe@sjsu.edu](mailto: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.

**SJSU** | JAY PINSON STEM  
EDUCATION PROGRAM

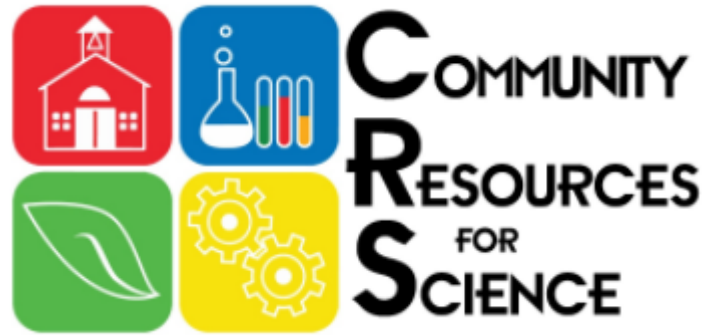
COMPLETE INTEREST FORM HERE: [SJSU UDL](#)



## Community Resources for Scien...

[crscience.org](http://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](https://docs.google.com/forms/d/1ap_jzkOQSMxTl6fit8RQ3JeROu18jC4P3tEEmluculM/edit)



## SCIC8 FREE VIRTUAL UNCONFERENCES

### SCIC: GEORGIA

9:00 AM - 11:00 AM ET US | 6:00 AM - 8 AM PT US

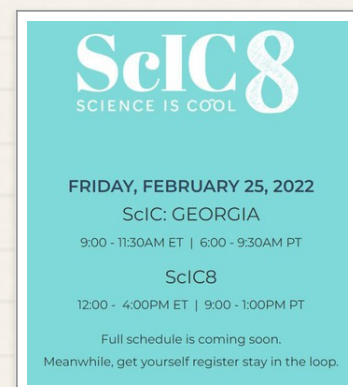
SciC: Georgia will bring together educators, government officials and corporate executives empowered to assess and change educational priorities to meet the evolving workforce skills required for 21st-century jobs.

This event will be of special interest to teachers in the state of Georgia, but the presentations and topics discussed are going to resonate with science educators around the world.

### SCIC8

12:00 PM - 4:00 PM ET US | 9:00 AM - 1:00 PM PT US

SciC8, the eighth "Science is Cool" unconference, continues to entertain and inspire with speakers and influencers who champion STEM education. Brought to you by the educators at PocketLab.





REGISTER HERE: SCIC8 UNCONFERENCES

# NGSS NOW

6 things to know about quality K–12 science education in **February 2022**



NGSS NOW FEBRUARY 2022 NEWSLETTER

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

STEM TEACHING TOOLS [CLICK HERE TO READ](#)

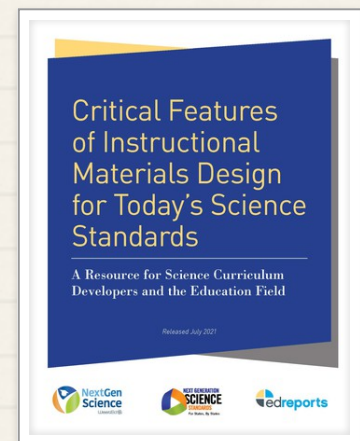
[CLICK HERE TO VIEW - STEM TEACHING TOOLS - Navigating the Political Dimensions of Climate Change Teaching and Learning](#)

## SCIENCE CURRICULA NEW RESOURCE

Critical Features of Instructional Materials Design for Today's Science Standards:

A Resource for Science Curriculum Developers and the Education Field

Today's science standards have initiated a significant shift in all parts of the science education system. As a result, science instructional materials are also changing. Educators, school and district administrators, and developers of instructional materials need to be able to develop a common vision of high-quality curricula that will prepare students for success in school and beyond.



This resource is jointly authored by EdReports and NextGenScience to illustrate critical design features of science instructional materials and provide common language for describing high-quality materials.



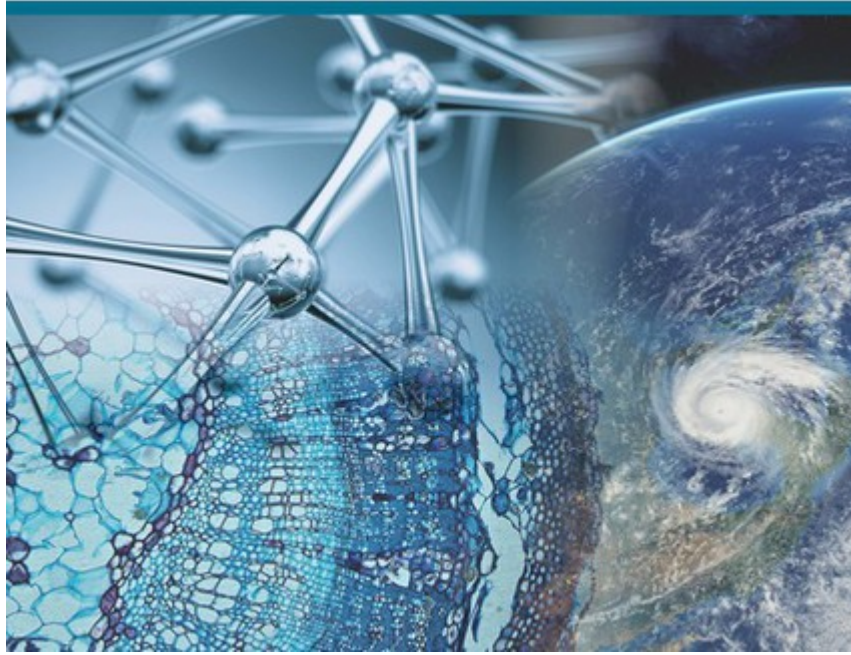
[CLICK HERE TO READ THE RESOURCE](#)

The National Academies of  
SCIENCES • ENGINEERING • MEDICINE

CONSENSUS STUDY REPORT

## Call to Action for Science Education

BUILDING OPPORTUNITY FOR THE FUTURE



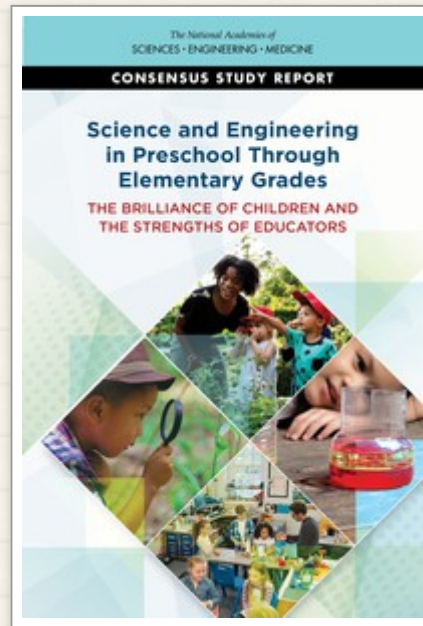
[CLICK HERE TO READ THE NASEM CALL TO ACTION](#)

This report sets a bold vision for the future of high quality science education looking across all of grades K-16 and puts equity and opportunity at the center. It also explores role of science education for participation in democracy and daily life

## SCIENCE AND ENGINEERING EDUCATION NEEDS TO BE PRIORITIZED THROUGH FIFTH GRADE, SAYS NEW REPORT

Starting in early childhood, children are capable of learning sophisticated science and engineering concepts and engage in disciplinary practices. They are deeply curious about the world around them and eager to investigate the many questions they have about their environment. Educators can develop learning environments that support the development and demonstration of proficiencies in science and engineering, including making connections across the contexts of learning, which can help children see their ideas, interests, and practices as meaningful not just for school, but also in their lives. Unfortunately, in many

preschool and elementary schools science gets relatively little attention compared to English language arts and mathematics. In addition, many early childhood and elementary teachers do not have extensive grounding in science and engineering content.



[CLICK HERE TO READ THE NASEM ELEMENTARY SCIENCE REPORT](#)

## 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.



SCCOE

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



WALDEN WEST

<http://www.waldenwest.org/>



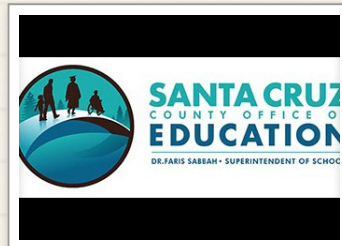
CAELI

<https://ca-eli.org/>



SMCOE

<https://eeproviders.smcoe.org>



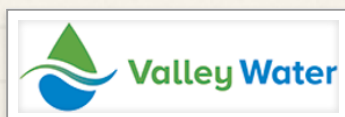
SANTA CRUZ COE

<https://sites.google.com/view/environmental-literacy-for-all/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.living-classroom.org/>

**More Environmental Literacy Resources and Partners Featured on the SCCOE and SMCOE Environmental Literacy websites above.**



Santa Clara County  
Office of Education

## ISTEAM- SCIENCE & ENVIRONMENTAL LITERACY

@sccoe

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.

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sccoe.org/isteam/science/Pag...

### 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.