DEAR READERS,

Welcome to 2021 and thank you for registering to receive our Monthly Santa Clara County Monthly Science and Environmental Literacy Newsletter. This newsletter has been in the works for some time now and we are so excited you have decided to stay in touch with us.

This newsletter will not only share the Santa Clara County Office of Education's workshops but it will showcase what our Community-Based Partners are doing locally to support Science and Environmental Literacy. Our goal is to showcase some of the amazing things happening locally.

We were all challenged in 2020 and have been pushed outside of our comfort zone but we want you all to know that you are not alone. At the Santa Clara County Office of Education, we are here to provide support not only in specific content areas but support in Distance Learning. We have an amazing team of coordinators who are ready and willing to assist.

WHAT’S GOING ON LOCALLY WITH ENVIRONMENTAL LITERACY

In the month of December, our local Environmental Literacy Initiative Leadership Collaborative didn’t meet but that doesn’t mean we have stopped working. We are in the process of developing a mission and vision for Environmental Literacy in Santa Clara County as well as bringing high quality virtual resources to you and your students.

Many don’t understand why Environmental Literacy is so important. In order to answer this, we must first explain What is Environmental Literacy?

"An environmentally literate person has the capacity to act individually and with others to support ecologically sound, economically prosperous, and equitable communities for present and future generations. Through lived experiences and education programs that include classroom-based lessons, experiential education, and outdoor learning, students will become..."
environmentally literate, developing the knowledge, skills, and understanding of environmental principles to analyze environmental issues and make informed decisions.”

From “A Blueprint for Environmental Literacy - Educating Every Student In, About, and for the Environment.”

We are excited to see environmental literacy grow in the Bay Area and if you would like to join us feel free to register for our next meeting on January 21, 2021.


ENVIRONMENTAL LITERACY PARTNER WEBSITES

Santa Clara County Office of Education

http://www.waldenwest.org/

CALIFORNIA ENVIRONMENTAL LITERACY INITIATIVE (CAELI)

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

https://ca-eli.org/
SAN MATEO COUNTY OFFICE LITERACY OF EDUCATION-ENVIRONMENTAL LITERACY
https://eeproviders.smcoe.org

SANTA CRUZ COUNTY OFFICE OF EDUCATION-ENVIRONMENTAL LITERACY FOR ALL
https://sites.google.com/view/environmental-literacy-for-all/professional-learning

SAN JOAQUIN COUNTY OFFICE OF EDUCATION-ENVIRONMENTAL LITERACY
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

ENVIRONMENTAL VOLUNTEERS
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.
7 things to know about quality K-12 science education in January 2021

UPCOMING EVENTS

REGISTER HERE- CA NGSS STATEWIDE IMPLEMENTATION

This learning series is the new NGSS Rollout. These are high quality sessions that have been revamped to support both in person and virtual learning environments. We highly encourage teams of teachers and administrators to register for the series.
ABOUT THE TRAINING
The California NGSS Statewide Implementation: Building Student Sensemaking Through Disciplinary Literacy is an online professional learning experience designed for K-12 academic coaches, administrators, curriculum leads, and teacher leaders to deepen their understanding and implementation of teaching practices to advance student science understanding.

The sessions are divided into four science and literacy-specific strands as noted below. Participants register for one strand per event where they will experience grade-band specific instructional strategies for student sensemaking, engage in collaborative reflection, develop a classroom plan of action to implement with students, and collaboratively review plan implementation in online follow-up meetings.

Who
K-12 academic coaches, administrators, curriculum leads, and teacher leaders. It is recommended that districts register teams of four to six educators, including at least one administrator.

Time Commitment
Participants will stay with the strand they registered for during the entire session.

Cost
$250 per attendee per 12-hour strand (completed in one offering). Registration for a second or third strand for a single attendee is $200. Fee includes access to all materials. Payment is made by check or credit card. All payments must be received prior to the professional learning date you are attending. NO purchase orders are accepted. NO participant cancellation refunds.

How
REGISTRATION LINK - https://bit.ly/33JxQmh
For questions or more information, please contact Bernadette Gutierrez by email at bgutierrez@ocde.us or by phone at (714) 966-4443.
SESSION DETAILS

Building student sensemaking through disciplinary literacy in science is a critical topic for the continued growth and implementation of the California Next generation Science Standards. Four strands have been developed to address literacy including using text, argumentation, discourse and notebooking. In each strand, participants will engage with: the specific topic and strategies for implementation; discussion and assessment of strategies; sharing and collaboration time with colleagues; and planning time. Each strand has both an elementary and secondary section.

How to Use Science Text - Elementary and Secondary Strands
Participants will deepen their understanding of reading in relation to science, experience the flow of a science lesson, and acquire strategies to take back to their classrooms. Additionally, participants will engage with a variety of phenomena-driven science tasks that highlight research-based reading strategies to increase students’ engagement and comprehension.

Discourse for Sensemaking in Science - Elementary and Secondary Strands
Designed to engage participants with research-based instructional practices that facilitate students’ sensemaking through discourse, including engagement with: elicit students’ prior knowledge around phenomena; engage students in building understanding and ongoing revision of their thinking; and support students in drawing evidence-based consensus and explanations.

Use of Notebooks for Sense-Making in Science - Elementary and Secondary Strands
Designed to advance participants’ use of student sensemaking notebooks, participants will engage in a learning experience that deepens their understanding of the importance of notebooking and will select strategies to explore further: developing and using models; making notebook entries; publishing using evidence from notebooks; using tools to support student independent sensemaking; going beyond CERs; and, using notebooks to assess student understanding.

Argumentation: Moving Beyond CER to Help Students Make Sense - Elementary and Secondary Strands
Through argumentation, students engage in the process of science by cohesively using evidence to form a scientific explanation. Participants will learn how to support students as they develop initial claims, analyze and examine multiple lines of evidence, and critique and revise arguments in the sensemaking process.

Administrator
Administrators will attend a strand of their choice to learn alongside teachers to deepen their understanding of science practices on student sensemaking through the lens of disciplinary literacy. An opportunity, via a breakout session, will be included to discuss with other administrators how to support teachers in the implementation of new strategies and how to analyze the impacts on student learning.

REGISTER HERE - THE RACE FOR THE COVID-19 VACCINE
The Race for the COVID-19 Vaccine

Understanding the science behind the various COVID-19 vaccine platforms to include: Pfizer/Moderna, AstraZeneca/Gamaleya, Johnson & Johnson, Sinovac, GlaxoSmithKline/Sanofi, Novavax, and Inovio.

Dates: January 28 and February 23, 2021

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

Mark Olado, BA, Biology/Chemistry (University of Pacific, Stockton CA), MA, Natural Sciences (San Jose State University, San Jose CA), Silver Creek High School (San Jose, CA) science instructor (retired) and currently an adjunct professor of Biology (Evergreen Valley College) and active board member of TeachMatters (Santa Clara CA). Co-author and a freelance science writer and works as a science education consultant with high schools in developing biotechnology and forensics science programs.

Target audience: Science Educators (K5 to HS)

Participants will receive materials on how to implement this topic into your science curriculum and distance learning module.

Register: https://bit.ly/3h24bbS

For questions, contact: M Patricia Andres-Salgarillo, Ed.D.
Mathematics Coordinator
parendes-salgarillo@coe.org

REGISTER HERE- K-5 SCIENCE LEARNERS DL
Creating robust learning environments for K-5 science learners during distance learning.

Please join us for this three-part professional learning series that focuses on the elementary classroom and how to support ALL learners to engage in rich discourse about scientific phenomena. You will have opportunities to engage with new strategies and technology and discuss the challenges of supporting science in distance learning.

**Session Dates**

- **December 8, 2020**: Scientific Sensemaking During Elementary Distance Learning
- **January 14, 2021**: Making Phenomenon Based Inquiry and Discourse Happen in an Elementary Virtual Classroom
- **February 9, 2021**: Exploring Tech Integration Strategies to Meet Your Pedagogical Goals for Elementary Sensemaking

All sessions will be held from 3:30pm to 5:00pm

**Sign up!**

To register, complete this form or contact Adriene Metoyer-Leonard, Program Specialist at (510) 670-4119 or email at aleonard@acoe.org

Presented by CORE LEARNING, a department of the Alameda County Office of Education
Health Education Professional Learning Series
California Health Education Framework (HEF) Rollout Project

Purpose
The HEF Project aims to shift educators to more advanced student-centered, skill-based teaching and learning practices, as well as health content, while building a statewide system of support for health education.

A series of professional learning opportunities will be provided in 2020 and 2021. The first session will focus on the overarching framework guidance and implementation resources to support educators.

Join Us To:
- Develop a deeper understanding of the CA Health Education Framework guidance
- Connect with other educators to build your health education toolbox

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<th>Location</th>
<th>Grade Level(s)</th>
<th>Registration Contact:</th>
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<tr>
<td>Online via Zoom</td>
<td>1K – 12</td>
<td>Alex Coronel;</td>
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<th>Audience</th>
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<tr>
<td>Administrators, Teaching Staff, Counselors, Nurses, and any other interested Educator or Community Member</td>
<td>Free</td>
<td>Jennifer Mutch;</td>
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Registration

- **Session 1:** October 13, 2020
- **Session 2:** December 16, 2020
- **Session 3:** January 28, 2021
- **Session 4:** March 31, 2021

To register*, please visit:


*Please note the following:
- All sessions will be held from 3:30p – 5:00p on their assigned dates.
- Registration indicates attendance for the entire series.
- In addition to the sessions listed, there are asynchronous components available. Links will be provided to you when registration is complete.
Santa Clara County Office of Education invites all Coaches, Mentors, and TOSAs to the:

**2020-2021 TOSA & Instructional Coaches Network Meeting**

- Develop your leadership skills as you learn more about supporting teachers in content, pedagogy, and technology.
- Network with other TOSAs and coaches.
- Explore how to support your Teachers with PBL, Student Centered Learning, Integration of Content areas, and more.

**12 p.m. to 2 p.m. via Zoom**
- Tuesday, September 15, 2020
- Tuesday, October 20, 2020
- Tuesday, November 17, 2020
- Tuesday, January 19, 2021
- Tuesday, February 23, 2021
- Tuesday, March 16, 2021
- Tuesday, April 20, 2021
- Tuesday, May 18, 2021

**Via Zoom**
Zoom Link will be sent prior to the meeting.

**Audience**
TOSAs, Mentors, Coaches

**Grade Level(s)**
TK – 12

**Cost**
Free

**Contact**
Jennifer Mutch 408-453-6691
or jmutch@scoe.org

**Registration**

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*Students First – Collaboration – Innovation – Service – Strengths Based*

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**REGISTER HERE- ENVIRONMENTAL LITERACY COLLABORATIVE**
2020-2021 Environmental Literacy Leadership Collaborative

Description
The Environmental Literacy Leadership Network will explore how to connect and partner with Community-Based organizations and collaborate on ways to infuse environmental literacy into our classrooms and schools.

3 p.m. - 5 p.m. via Zoom
- Thursday, September 17, 2020
- Thursday, October 22, 2020
- Thursday, November 19, 2020
- Thursday, January 21, 2021
- Thursday, February 25, 2021
- Thursday, March 18, 2021
- Thursday, April 22, 2021
- Thursday, May 20, 2021

Via Zoom
Zoom link will be sent before the meeting

Audience
TK-12th grade Teachers, History Social Studies Teachers, Health Teachers, Science Teachers, TOSA, Instructional Coaches, and Informal Environmental Educators

Grade Level(s)
TK – 12

Cost
Free

Contact
Jennifer Mutch 408-453-6061
or jmutch@cccce.org

Registration

Contact
Paula Leggett 408-453-6587 or Pleggett@scow.org

REGISTER HERE - CAST ACADEMY
California Science Test (CAST) Academy

January 25 & 26, 2021 • 3 to 6 p.m.

Purpose
- Learn about the CAST Design and expectations
- Explore CAST Training and Practice Test Items
- Discuss ideas for supporting students to practice with NGSS styles of questions

Highlights
- Deconstruct a California NGSS Performance Expectation
- Consider the implications of the CAST and NGSS for science teaching and learning
- Understand how the CAST helps you prepare students for 3-dimensional learning with NGSS

Via Zoom
Zoom link will be sent before the meeting

Audience
K–12 Science Teachers, TOSAs, Administrators, Teacher Leaders, Instructional Coaches

Grade Level(s)
TK–12

Cost
$40 per participant

Contact
Jennifer Mutch (408) 453-6691
jmutch@sccoe.org

Registration
[link]

Join us for 2 more sessions of #TEENSCAN
Make a difference. See registration link on the flyer below.
Empower students through environmental literacy and action! Explore ways to encourage students with best practices you can apply during distance and in-person learning. Investigate how to integrate the Environmental Principles & Concepts which are woven into Next Generation Science Standards, and the History / Social Science and Health Education Frameworks. We’ll find opportunities to engage K-8 students in place-based learning that builds on their interests and provides ways for students to collaborate to make real-world connections. We will focus on how humans both rely on and affect natural systems!

December 1, 2020
- Phenomenon-based activities to engage students
- ESDC overview and integration into NGSS
- Grades-specific connections
- Experience a self-paced, student-accessible online resource
- Explore ideas for implementation

January 12, 2021
- Explore a variety of contexts relevant to your place and your students
- Explore community-based solutions
- Overview the scope and sequence of TeensCan and standards connections
- Connections to other Core Standards

April 20, 2021
- Identify evidence of positive changes with students
- Showcase your student-led projects
- Collaborate and Celebrate!

Facilitated by:
William Franzell
Mary Whaley
Beth Gallagher
Website: https://fb.edu/teenscan

Time: 3:00 PM - 5:00 PM
Audience: Middle school teachers
OMS Link: https://d3n8a8pro7vhmx.cloudfront.net/teenscan/pages/27592/变革.png
Zoom Link: Link will be emailed to all participants registered through OMS

MORE INFO - DE ANZA COLLEGE PLANETARIUM FIELD TRIPS
VIRTUAL FIELD TRIPS

Introducing virtual field trips at the De Anza College Planetarium

BRING THE EXPERIENCE OF THE PLANETARIUM TO YOUR STUDENTS VIRTUALLY

Our online presentations last approximately 45 minutes for up to 100 guests, and are grade-appropriate "live" learning modules created by our Planetarium Staff. Presentations also include a question and answer, an activity and the use of planetarium software Stellarium (open-source) and DigitalSky2 by Sky-Skan, Inc. Zoom and Google Meet formats are both available.

Show Options:
All presentations are aligned with NGSS standards:

- "Patterns in the Sky for Kinder - Grade 2"
- Stars and Seasons "Celestial Cycles" for Grades 3-5
- Weather and Climate "Climate: The Long Cycle" for Grades 3-5
- Celestial Moon "Dance of the Solar System" for Grades 6-8
- Solar System "The Beauty of the Cosmos" for Grades 6-8
- "The Moon and Stars" for general audiences - Grades K-8

Fee & Payment: Field trips are $250 per reservation and must be paid in full upon submission of your online request via our online reservation window. To reserve a date with a check or PO please contact galvango@deanza.edu

Availability & Schedule: Virtual field trips begin September 14th, 2020 and will be offered through June 2021, Monday to Friday mornings: 9:00, 10:00 and 11:00 a.m. To see our field trip calendar for available dates click here. For alternative times please contact galvango@deanza.edu

To Reserve a Field Trip: Reserve your field trip two weeks or more in advance to ensure your preferred date and time availability. Please use our online reservation window to submit your field trip request and payment.

Confirmations: Our planetarium will follow up with a confirmation of your reservation and instructions on how to access your virtual field trip to the Planetarium.

Questions or need help? Contact us at planetarim@deanza.edu
JOIN JOHN MUIR LAWS ON WEDNESDAY’S AT NOON FOR FREE EDUCATOR WORKSHOPS

Learn how to teach Nature Journaling! Join our weekly discussion and idea-sharing for teachers, home school parents, and other educators interested in teaching nature journaling skills. Each meeting will have a theme. Most of the conversation that day will revolve around this core idea but expect interesting side routes and trails.

Click Here to Join the Meeting

All ages and experience levels are welcome. No registration is necessary. This live workshop can hold 500 people and is open to everyone on a first-come basis. If you are new to Zoom or are having trouble with the meeting controls, please see these notes and suggestions on Zoom Tips for Online Classes with John Muir Laws to help you get more out of the online workshop.

When possible I will also make a recording of the workshop and post it on my blog. I look forward to seeing you there!

NOTE: Start time is 12 PM Pacific, 1 PM Mountain, 2 PM Central, 3 PM Eastern Time

THRIVELY

Ignite creativity with ready to integrate learning experiences.

Engage your students with

- STEM/STEAM
- Social Emotional Learning
- Project Based Learning, Work Based Learning

Click here to explore Thrively Learning Experiences

TEACHER OPPORTUNITIES

Middle School Teachers needed to try out curriculum created by WildMind. If you are a teacher at a school with 50% or more FRMP student enrollment, you can qualify to utilize this program for FREE.

If interested, please contact:
Michele Durant
Assistant Director: Programs Manager/Wildlife Manager
Welcome to the Wildmind NGSS Distance Learning Classroom Science Units for Middle School Students

WHY CHOOSE WILMIND UNITS

Our units are project-based. They embed scientific practices and skills, content and storyline-based curriculum that the NGSS and similar standards-based science frameworks promote.

Due to the overwhelming positive response when we piloted our elementary school units in 2017, and growing need for middle school teachers to find project-based learning units that integrate multiple science standards, we created the middle school versions. Several of the lessons have already been vetted with preservice middle and high school teachers who found the lessons to be very compelling and engaging and, along with the overall connection to the Wildmind animals, serve as an effective model for 3-dimensionally implemented NGSS lessons. They appreciated easy to follow instructions and prompts that are critical for teachers to demonstrate student learning related to the standards.

Based on nearly four decades of school-based education experience, we designed these standards-aligned classroom units that support STEM/STEAM learning for students to experience science through collaboration while developing interpersonal communication skills, as well as empathy to become informed and engaged environmental leaders of tomorrow. Your students will learn the science and they will learn to care.

The opportunity to see these wild animals up close on a smart board in their classroom or their computer at home – provides an optimal setting to learn science and pursue solutions.

The students engage with Wildmind education and animals "live" on the first day of the unit via a live, interactive webinar. This helps engage and immerse your students in a learning experience with a focus on addressing a real-world environmental issue.

This unit includes online curriculum – with lesson plans containing activities and assessment criteria – for the teachers to implement, and support from the Wildmind educators throughout the unit.
SCCOE and Valley Water Education Outreach is partnering to provide a series of workshops for a cohort of 5th and 6th Grade teachers, TOSAs, and Instructional Coaches, where you will learn about infusing water-focused, NGSS based lessons and projects into your teaching and you will be able to earn a small stipend when the project is completed. Projected start time: April 2021 and applications will be available in March 2021

Please complete this form if you are interested in applying for this program:
https://forms.gle/TEKPCpB2DUZwWwp456
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...  pleggett@sccoe.org
4084536587  sccoe.org/isteam/science/Pag...