



**Region 10**  
**Riverside | Inyo**  
**Mono | San Bernardino**



# District Science Leadership CoP Meeting Agenda

All Sciences ~ All Students

November 16, 2022

WiFi Portal:

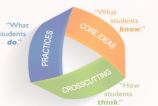
NONE

*Enjoy the day!*

## Agenda

**Advancing Equity and Access in Science Education: Leveraging our Community of Practice to Support NGSS Implementation strategies for all students via pre-determined Key Behaviors.**

**Facilitators:** Yamileth Shimojyo (RCOE), Mariano Aranda (SBCSS), Lynn Figurate (RCOE), Claudia Velez , Ed.D.(RCOE)





# Region 10 Science Leadership : Better Together! Facilitators/Support Staff



**Mariano Aranda**  
Science Consultant  
SBCSS



**Yamileth Shimojo**  
STEM Administrator  
RCOE



**Lynn Figurate**  
Science/Writing Specialist  
RCOE



**Claudia Velez, Ed. D.**  
STEM Administrator  
RCOE



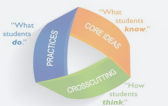
**Corrina De Leon**  
Administrator's Secretary  
RCOE



**Kelley Ambriz**  
Administrator's Secretary  
RCOE



**Michelle Sanchez**  
Administrator's Secretary  
RCOE





# DSL Community of Practice Goals 22-23

- **Goal 1** - Implementation of high quality science instructional strategies in Region 10
- **Goal 2** - Building leadership capacity of our network members
- **Goal 3** - Regional advocacy efforts toward the inclusion of science instruction, K-12
- **Goal 4** - Connect with various STEM partners in our region to gain knowledge about industries and colleges and organizations that provide services to students



# DSL Community of Practice Meeting

## Locations/Dates, 22-23

[Flyer](#)

- **Cal Baptist University College of Engineering**
  - September 28, 2022
  - 8432 Magnolia Avenue, Riverside, CA 92504
  
- **Whitewater Preserve**
  - November 16, 2022
  - 9160 Whitewater Canyon Road, Whitewater, CA 92282
  
- **Garner Holt, Education Through Imaginations**
  - February 7, 2023
  - 1220 Research Drive, Redlands, CA 9274
  
- **California State University San Bernardino, College of Education**
  - April 28, 2023
  - 5500 University Parkway, San Bernardino, CA 92407

2022-2023  
**District Science Leadership Community of Practice**



**WHAT**  
 Please join Region 10 Science Leadership as we come together to connect and share our academic goals in order to focus on Next Generation Science Standards equitable instructional practices.  
**Goal 1** - Implementation of high-quality science instructional strategies in Region 10  
**Goal 2** - Building leadership capacity of our network members  
**Goal 3** - Regional advocacy efforts toward the inclusion of science instruction, K-12  
**Goal 4** - Connect with various Science, Technology, Engineering, and Math partners in our region to gain knowledge about industries and colleges that provide services to students

**WHO**  
 TK-12 district science leaders, Teachers on Special Assignment, Instructional Coaches, school site leadership for both elementary and secondary, formal and non-formal science leaders and teachers

**TIME**  
 8:30 a.m. - 3:00 p.m.

**FEE**  
 \$100 per person

**Cal Baptist University College of Engineering**  
 8432 Magnolia Avenue  
 Riverside, CA 92504  
<https://rcoe.k12oms.org/eventdetail.php?id=219782>

**Whitewater Preserve**  
 November 16, 2022  
 9160 Whitewater Canyon Road  
 Whitewater, CA 92282  
<http://rcoe.k12oms.org/485-220560>

**Garner Holt, Education Through Imagination**  
 February 7, 2023  
 1220 Research Drive  
 Redlands, CA 9274  
<https://sbcss.k12oms.org/31-219583>

**California State University San Bernardino, College of Education**  
 April 28, 2023  
 5500 University Parkway  
 San Bernardino, CA 92407  
<https://sbcss.k12oms.org/31-219744>

  
San Bernardino County Superintendent of Schools  
 Ted Ayley, County Superintendent

  
Region 10  
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EDUCATION THROUGH IMAGINATION

  
THE WILDLANDS CONSERVANCY

  
CBU  
 COLLEGE OF ENGINEERING



*Transforming lives through education*

Curriculum/Instruction and Academic Enrichment | Education Support Services  
 Julia Nunez | science.events@sbcss.net | 909.386.2910 | www.sbcss.net



# District Science Leadership CoP Meeting Agenda



## District Science Leadership CoP Meeting Agenda

NGSS Implementation via Key Behaviors

All Sciences ~ All Students

Location: The Wildlands Conservancy  
November 16, 2022 | 9:00 a.m. - 2:00 p.m.

[Region 10 YouTube Channel](#)

Advancing Equity and Access in Science Education: Leveraging our Community of Practice to Support NGSS Implementation strategies for all students via pre-determined Key Behaviors.

Facilitators: Mariano Aranda (SBCSS), Lynn Figurate (RCOE), Yamileth Shimojo (RCOE), Claudia Velez (RCOE)

- 8:30 – 9:00      **Check-in and Informal Networking**
- Light Breakfast
- 9:00 – 9:15      **Welcome - Opening**
- Yamileth Shimojo, Administrator, STEM  
Claudia Velez, Administrator, STEM  
Mariano Aranda, Coordinator, Science  
Lynn Figurate, Administrator, Writing
- 9:15- 11:15      **Engage:**
- Education Programs at the Whitewater Preserve  
Emily Buchi, Education Director, Whitewater Preserve  
Lucas Wilgers, Preserve Manager, Whitewater Preserve  
Sienna Thomas, Naturalist, Whitewater Preserve
- Explore:**
- Whitewater Preserve Experience  
Creek Freaks  
Light Hike
- 11:15 - 12:00      **LUNCH**
- 12:00 - 12:15      **CDE/CASE Statewide Update**
- Emily Oliva, Ed.D., Education Program Consultant, CDE  
Pete A'hearn, President, California Science Educators (CASE)



- 12:15 – 1:30      **Explain:** NGSS Implementation via Vital Behaviors
- [Opportunity for Successful Science Implementation](#)
  - [Influencer, The Power to Change Anything](#)
  - [The Servant, A simple story about the true essence of Leadership](#)
- 1:30 – 1:45      **Elaborate:**
- Region 10 NIC Members/Leadership
  - Defining Vital Behaviors
  - Simple and Visible Classroom Vital Behaviors
  - Implementation Data
- STEM Ecosystem
- Initiatives in Support of high quality STEM/science instruction
- 1:45 – 2:00      **Evaluate:**
- [Measurement of Local NGSS Vital Behaviors](#)  
[Measurement of our Region 10 NGSS Vital Behaviors](#)
- 2:00 – 3:00      Informal Meeting/Networking
- 
- DSL-CoP 2022-2023**      September 28, 2022      November 16, 2022  
\*various locations      February 8, 2023      April 19, 2023



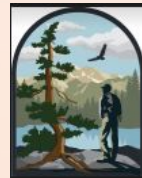
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# District Science Leadership CoP Meeting

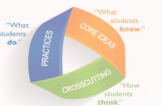
**Our Host Today:**

**The Whitewater Preserve of the  
Wildlands Conservancy**



**THE WILDLANDS CONSERVANCY**

**THANK YOU TO OUR HOSTS!**

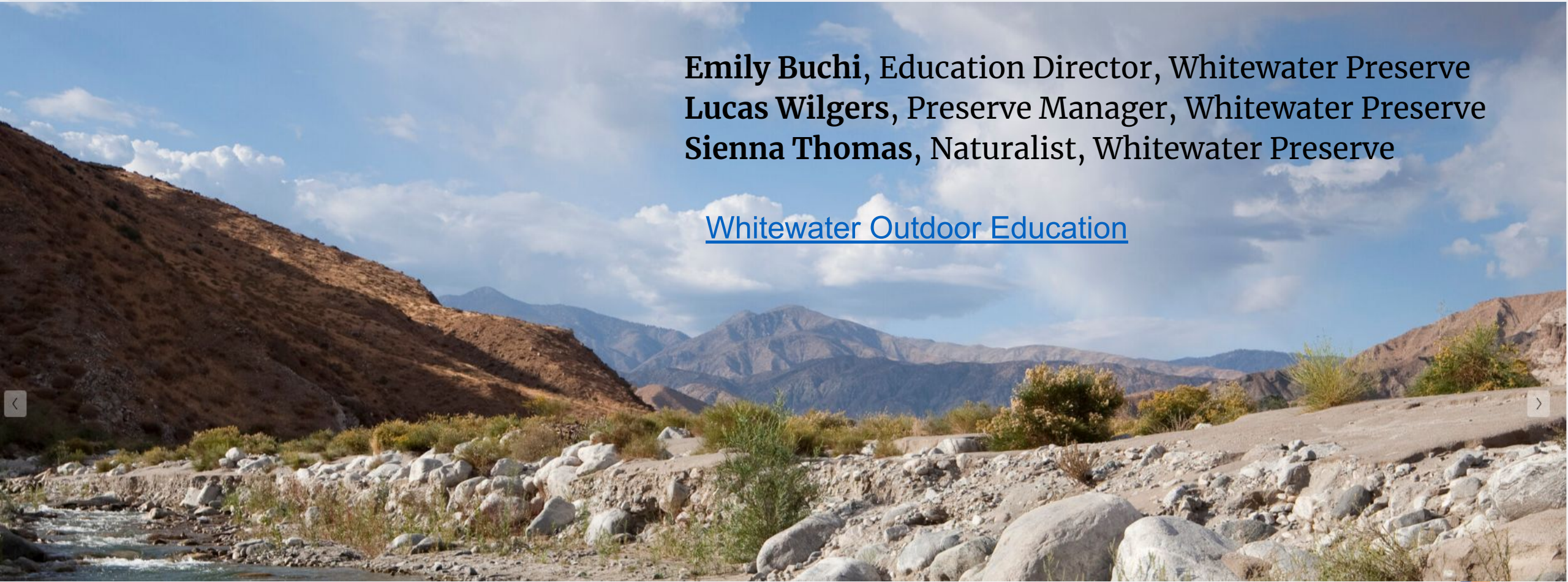




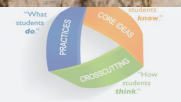
# Engage : Education Programs at the Whitewater Preserve

**Emily Buchi, Education Director, Whitewater Preserve**  
**Lucas Wilgers, Preserve Manager, Whitewater Preserve**  
**Sienna Thomas, Naturalist, Whitewater Preserve**

[Whitewater Outdoor Education](#)



<https://wildlandsconservancy.org/preserves/whitewater>



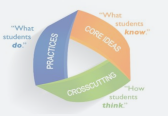




# Explore: Host Tour, Whitewater Preserve

## Sessions:

- **Creek Freaks**
- **Light Hike**

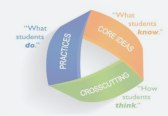




# Lunch!

## Lunch Conversation:

1. What are your current implementation successes?
2. What are your current implementation challenges?





# Statewide Updates

Emily Oliva, Ed.D., Education Programs Consultant  
Professional Learning Support and Monitoring Office  
Educator Excellence and Equity Division  
California Department of Education  
1430 N Street, Suite 4309  
Sacramento, CA 95814  
[EOliva@cde.ca.gov](mailto:EOliva@cde.ca.gov)

Google File of documents:

[https://drive.google.com/drive/folders/1uoTODjzRRu5tgy73P222\\_iOs\\_kjdE59zD?usp=sharing](https://drive.google.com/drive/folders/1uoTODjzRRu5tgy73P222_iOs_kjdE59zD?usp=sharing)

Pete A'hearn, President, California Science Educators (CASE)

<https://cascience.org/>

[Prioritized Funding Opportunities CA - CASE Leaders doc](#)

Current funding opportunities  
Which funds are district leaders thinking about and for what purpose?



# Explain: The Servant , A simple story about the true essence of Leadership

## Believing in Others

*A coach's job is not to fix, but to support and enhance the individual skills that a coachee already has.*

In order to do this the coach must: ...

## Managing Needs

*A coach must also balance his or her own needs, the needs of the organization, and the coachee's needs. ...*

## Earning Trust and Showing Respect

## Stay Connected

## Anticipate Needs and Be Proactive with Resources



# **Explain:** Influencer, The Power to Change Anything

“Vital Behaviors are the smallest set of actions that lead to the results you want. They are the few high-leverage actions that if you keep doing, produce the outcomes you’re after... Vital Behaviors cut to the chase.”

SEP Planning Cards

Developing & Using Models Graphic Organizer

## **SAMPLE**

What I value: Inquiry Based Instruction

Behavior: What does this look like when I walk into the classroom?



# Explain: Opportunity for Successful Science Implementation

## 22-23 Exercises 1 - 8 NGSS Implementation

Exercise 1: How does the NGSS Fit into Existing Initiatives? Self-Assessment

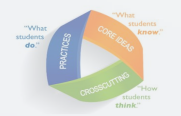
Exercise 2: Identifying Data to Support Improvement

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Region 10 LCAP Advocacy Check Points

Directions: Review each item. Check all that apply.

<input type="checkbox"/>	Your LCAP has clear planned actions/services and sufficient budgeted expenditures for high quality TK-12 science instruction.
<input type="checkbox"/>	Education Partners collaboratively present action plan proposals to you as an LCAP writer.
<input type="checkbox"/>	Partners collaboratively pitched action plan proposals to LCAP writers.
<input type="checkbox"/>	Present action plan with data/metrics proposal to LCAP writers.
<input type="checkbox"/>	Revised action plan proposals with Educational Partners.
<input type="checkbox"/>	Write an action plan proposal with budgeted expenditures for LCAP.
<input type="checkbox"/>	Budget appropriate funding for resources, personnel, and professional development.
<input type="checkbox"/>	Collected other metrics other than state-level assessments for science student advancement.
<input type="checkbox"/>	Know my current CAST and CAA data including supplemental concentration groups such as English Learners, Foster Youth, and Socio-Economically Disadvantaged Youth.
<input type="checkbox"/>	Read the document, <a href="#">"Opportunity for Successful Science Implementation in a Post-Pandemic Climate."</a>



# Explain: Opportunity for Successful Science Implementation

## TAKE ACTION:

Focus on system-wide actions to measure **science learning gaps** that has affected students TK–12 and provide this data to your district's LCAP writing team for public review with educational partners.

### *Science Student Achievement Metrics to Consider:*

- Survey elementary school sites to identify the amount of weekly science instructional minutes that were spent making sense of phenomena, and compare this year to previous years' minutes.
- Survey secondary teachers about content gaps utilizing the pacing guide/curriculum maps/disciplinary core ideas and compare this year with previous years.
- Point to the pause created by not rolling out new High-Quality Science Curricula (textbook adoptions or other inquiry based science resources).
- Survey all science teachers to identify how many professional learning hours were devoted to science and compare this year with previous years.
- Survey all science teachers to identify substantial changes in student performance on classroom based assessments.
- Use local common formative assessment measures (benchmarks) to identify gaps in learning and compare this year to previous years.
- Use initial CAST data to identify gaps that exist in supplemental concentration and historically underserved groups.
- Compare science and attendance data. Is there a correlation between when STEM or science activities are being conducted and positive attendance outcomes?
- Use science and engineering fair participation data. Compare this year to previous years; was there a drop in participation?
- Compare ELA and Math CAASPP data between STEM schools and non-STEM schools.
- Compare D/F rates in science courses. Compare this year with previous years.
- Survey your parents/families. What are their perceptions of student achievement in science?

- What metrics are you tracking beyond CAST ?
- How do you measure the success of your implementation efforts?

# Elaborate: NGSS Implementation via Vital Behaviors

**We Advocate**

**We analyze systems**



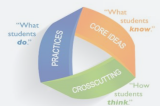
**We Identify Vital Behaviors**

**We are Influencers**

Region 10 NIC Members/Leadership

Defining Vital Behaviors for Region 10 Simple, Visible Classroom Vital Behaviors

Implementation Data / CAST







# Elaborate: STEM Ecosystem



## Initiatives in Support of High Quality Science Instruction

### District Science Leadership Community of Practice 2022 - 2023

- Meetings dates: 2/7/2023 and 4/28/2023

### 3x3 DST NGSS Resource Board

- Share widely! (NIC leadership)

### STEM Summer Learning Labs

- COMING July, 2023 (STEM PULL, STEM LEAPS, STEM ID, STEM Solutions)

### SCASS Leaders Meeting

- Registration  
11/17/22 from 9 am to 12:00 pm

### Publishers Fair IMC @CSUSB

- 4.27.23 from 2 pm - 8 pm

### High School:

### Advancing Student Research Teaching Academy: 2/13/23 - 2/17/23

### Middle School:

### Empowering Educators to Support Genuine Research: 4/5/23 - 4/7/23

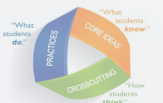
### STEMaPalooza: 2/21/23

### Educator STEPCon22: 10/12/23

- Location: Bourns Technology Center, Riverside

### Student STEPCon22: 10/5/23

- Hybrid Event: Science Show, STEM Exhibits, Student Research, Leaderboard, Hackout/Blackout CS game





# Elaborate: STEM Ecosystem

Initiatives in Support of High Quality Science Instruction

**EVENT DATE: April 21, 2023**

**Location: TBD**

**Audience: AP Environmental Science Students/high school students**

**Event goal: Build local capacity for grassroots organizing work**

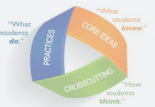
**Youth Action Climate Summit**

On the web: <https://enviroedcollaborative.com/ycas/>

**Event Date: January 21, 2023**

**Location Natural History Museum**

**Time: 9 am - 12 pm**





# Evaluate:

## Measurement of our Region 10 NGSS Vital Behaviors

## Measurement of Local NGSS Vital Behaviors

REGION 10 District Science Leaders												
Region 10 Aim Statement: Each participating LEA/School in Region 10 will establish an implementation goal of NGSS Vital Behaviors for the 2021 - 2022 academic school year.												
Elementary Site/District SAMPLE: xx% of teachers in NAME OF SCHOOL SITE will implement observable Vital NGSS classroom behaviors by the end of the school year.												
Secondary Site/District SAMPLE: xx% of teachers in NAME OF SCHOOL SITE will implement observable Vital NGSS classroom behaviors by the end of the school year.												
Implementation of NGSS Key Behaviors, TK-12												
	Name	Role/Title	Email	School OR	Implementation		NGSS Vital Behavior Data Metrics					Additional Notes
					Elementary	Secondary	BENCHMARK /	November	Februray	April		
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NGSS Implementation Vital Behaviors Local Data 2021-2022		
Number of Classrooms	Vital Behavior	Implementation Percentage
	Vital Behavior #1	
	Vital Behavior #2	
	Vital Behavior #3	
	Vital Behavior #4	
	Vital Behavior #5	
<b>Total of Classrooms Visited:</b>		<b>Average:</b>

\*A Region 10 NGSS/STEM Initiative to support inclusive, high quality science instruction for ALL.



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# On the Horizon

## STEM Project Based Learning @ Riverside County of Education

- February 14, 2023
- March 22, 2023
- April 19, 2023

**SAVE THE DATES !**



## SEXUAL HEALTH EDUCATION CORE SKILLS TRAINING

A 2-DAY PROFESSIONAL DEVELOPMENT SERIES FOR  
 ANYONE THAT WORKS WITH STUDENTS IN 4th-12th  
 GRADE

**JANUARY 19, 2023**

**9am - 3pm PST**

**RCOE - Murrieta 38670**  
 Sky Canyon Drive Murrieta,  
 CA 92563

[Register here](#)

**FEBRUARY 9, 2023**

**9am - 3pm PST**

**RCOE - Riverside**  
 3939 13th Street Riverside,  
 CA 92501

[Register here](#)

- Defining Sexual Health Education and Climate Setting
- Exploring a Trauma-Informed Approach to Sexual Health Education
- Inclusive Sexual Health Education and Understanding Gender and Sexual Diversity
- Tools and Skills for Teaching Anatomy in an Inclusive Classroom
- Managing Value-laden topics and Answering Sensitive Questions
- Teaching Consent and Healthy Relationships
- Self-reflection on Core Skills for Sexual Health Educators
- Self-reflection on Core Skills for Sexual Health Educators

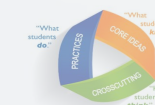
*Register Today!*

**Riverside County Teachers are welcome  
 to attend either or both sessions**

*If you have any questions or would like more  
 information, please contact Cardea School Support  
 at [schoolsupport@cardeaservices.org](mailto:schoolsupport@cardeaservices.org)*

**Registration deadline for  
 January 19, 2023:  
 January 5, 2023**

**Training Cost:  
 \$150 per session**





# How can County Office Leadership assist your efforts toward high quality science instruction for ALL?

Please provide Feedback about today:

**[CLICK HERE](#)**

**<https://forms.gle/cgNahQDhCoSDgbmeA>** ]



# Thank you to the Wildlands Conservancy the Whitewater Preserve!



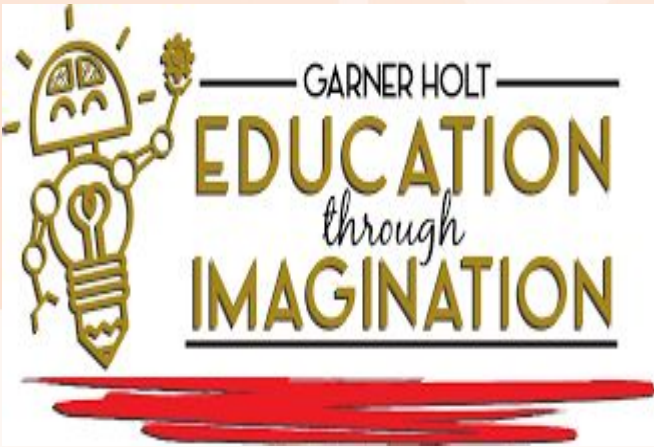
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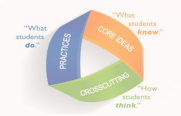
# Thank You!

Please Register for our next Meeting!

Please register at:

- **Garner Holt, Education Through Imaginations**
  - February 7, 2023
  - 1220 Research Drive, Redlands, CA 9274

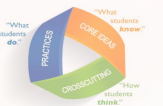




# to request Professional Learning District support

go here: [RCOE STEM/science](https://www.rcoe.org/STEM/science)

go here: add SBCSS link







# Region 10 YouTube Channel

- ▶ To access resources and videos, [Region 10 YouTube](#) Share/disseminate videos! Subscribe now!

