

SESSION DETAILS

DAY 1

Opening: Call to Action

Environmental learning and science go hand in hand in providing youth with rich opportunities to connect to local environments, see the relevance of science in their lives, build scientific and environmental literacy, and provide empowering opportunities to engage as members and change makers of their communities. Youth from the local community present a call to action to inspire educators in positively shaping the world of today and tomorrow by providing opportunities for such powerful learning.

K-8 | EDUCATORS

Grade Span Lessons and Debrief

Utilizing California's Environmental Principles and Concepts (EP&C) as a focus, participants experience a phenomenon-based grade-span appropriate learning sequence (K-2, 3-5, 6-8) that includes explorations and sense-making strategies leading to an explanation of the phenomenon. Understanding the phenomenon combined with EP&Cs allows students to further identify actions that can be taken to positively impact the local environment. The deep debrief of the learning sequence includes analysis and discussion of the design elements connecting learning not only to the EP&Cs but also to the three dimensions of CA NGSS, the needs of diverse learners, and the CA Standards for English and Language Arts and Literacy, English Language Development, and Mathematics Standards as appropriate.

K-8 | ADMINISTRATORS

Introduction to Observation Tool and Debrief

K-8 Administrators will be introduced to a classroom observation tool to use as they observe a grade span lesson. In the afternoon, they will debrief what they noticed and discuss how they can instructionally support their teachers. High School Administrators will participate in the High School Summit to better understand instructional shifts and to learn from those high schools that are successfully integrating NGSS and Environmental Literacy for all students.

9-12 | EDUCATORS AND ADMINISTRATORS

High School Summit

Environmental Literacy is an integral part of addressing the NGSS in high school science instruction. This day-long session aims to provide an example of how the EP&Cs have been intentionally included into the curriculum for the Chemistry in the Earth System course. The sample lesson has a chemistry focus, but can serve as a model for other Life Science and Physical Science courses being offered in California. In addition, we will have a panel discussion, Q&A, and time to work in subject specific collaborative groups to think about how the EP&Cs can be addressed in your subject area.

DAY 2

Opening: Classroom Showcase

Inspiration from classrooms across California showcase the power of connecting science with environmental learning. When classroom instruction utilizes locally relevant environmentally focused phenomena, the NGSS vision of *all standards all students* becomes reality. Participants will debrief the potential for increases in student engagement, academic achievement, equitable access to science, and opportunities to make science authentically and culturally relevant.

MORNING SESSIONS

K-12 | EDUCATORS AND ADMINISTRATORS

Making Phenomena Local

Phenomena-based instruction is a primary feature of the NGSS classroom. In this session, participants will identify examples of local, relevant environmental phenomena to support student learning.

K-12 | EDUCATORS AND ADMINISTRATORS

Community-Based Partners

Fostering student engagement in investigations of their communities supports one of the key instructional shifts called for by NGSS and the new Science Framework—science that is relevant to local communities and student interests. Participants will actively engage with local organizations to discuss and examine ideas for collaboration as thought partners, in providing students access to three-dimensional learning experiences, enhancing in-school and out-of-school learning opportunities.

AFTERNOON SESSIONS

K-12 | EDUCATORS

Planning from Phenomena to Action

Use a local, environmental phenomena as a lens to develop a learning sequence with a focus on the CA EP&Cs. Using a local environmental phenomenon, participants will learn a process to develop a student action centered 5E.

K-12 | ADMINISTRATORS

Supporting CA NGSS and Environmental Literacy

Administrators will discuss their visions for global citizenry, how to use leverage points in the system, e.g., CAST, dashboard, LCAP and other resources to begin planning action steps toward that vision.

Presented by the California County Superintendents Educational Services Association/County Offices of Education, K-12 Alliance @WestEd, California Science Project, and the California Science Teachers Association.



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