

CA NGSS Statewide Implementation

Professional Learning #1

School Year 2021-2022

Building Student Sensemaking Through Disciplinary Literacy



DATES

Each strand consists of 4 sessions of 3 hours each.

Use of Science Notebooks

Sept 21, 23, 28, and 30, 2021

4:00 pm – 7:00 pm

Follow-up event: Nov 9

4:00-6:00 pm

Discourse for Sensemaking in Science

Nov 30, Dec 1, 7, and 8, 2021

4:00 pm – 7:00 pm

Follow-up event: Feb 1

4:00-6:00 pm

How to Use Science Text

Feb 8, 9, 15 and 16, 2022

4:00 pm – 7:00 pm

Follow-up event: Apr 6

4:00-6:00 pm

Argumentation: Moving Beyond CER

Mar 22, 24, 29, and 31, 2022

4:00 pm – 7:00 pm

Follow-up event: Apr 28

4:00-6:00 pm

ABOUT THE PROFESSIONAL LEARNING

The California NGSS Statewide Implementation: Building Student Sensemaking Through Disciplinary Literacy is a 12-hour 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. All strands will be delivered via Zoom.

The four literacy-specific strands are described on page 2. Each strand will provide participants with learning experiences that are grade-band specific, NGSS instructional strategies to support student sensemaking, engagement in collaborative reflection, and development of a classroom plan of action to implement with students. The follow-up event allows participants to collaboratively review their plan/implementation.

AUDIENCE

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 for all listed dates including the follow-up event.

COST

\$300 per attendee. Fee includes 12 hours of professional learning, a 2 hour follow-up event, and access to all materials. Registration for a team of educators (2 or more participants) is \$250 per attendee if you register the whole team at the same time.

Payment can be 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.

REGISTRATION: CANGSS.org

For questions or more information, please contact Amy Kennedy by email at ngss.akennedy@gmail.com.

**CA NGSS
Collaborative**



CISC
Curriculum and Instruction
Steering Committee



California
Science
Project



SESSIONS 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

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

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

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

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 breakout rooms, 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.

NEW - Coaches, Curriculum Leads, and Teacher Leaders

Participants that register as coaches, curriculum leads, or teacher leaders and participate to any strand with a team of registered colleagues will have the opportunity to also participate at no additional cost to a special facilitator and leadership training aiming at providing deeper understanding of the strand goals and the techniques to facilitate the sessions.

