

NGSS

rollout #1.5



Stanley Mantooth, Superintendent

June 20 & 21, 2017

Santa Ynez Valley Union High
2975 East Highway 246
Santa Ynez, CA 93460

Join science leaders at this professional learning symposia exploring the philosophy, design, awareness of and transition to the Next Generation Science Standards (NGSS). During this two-day symposia, explore conceptual shifts, cross-cutting concepts, science and engineering practices, and disciplinary core ideas.

AUDIENCE

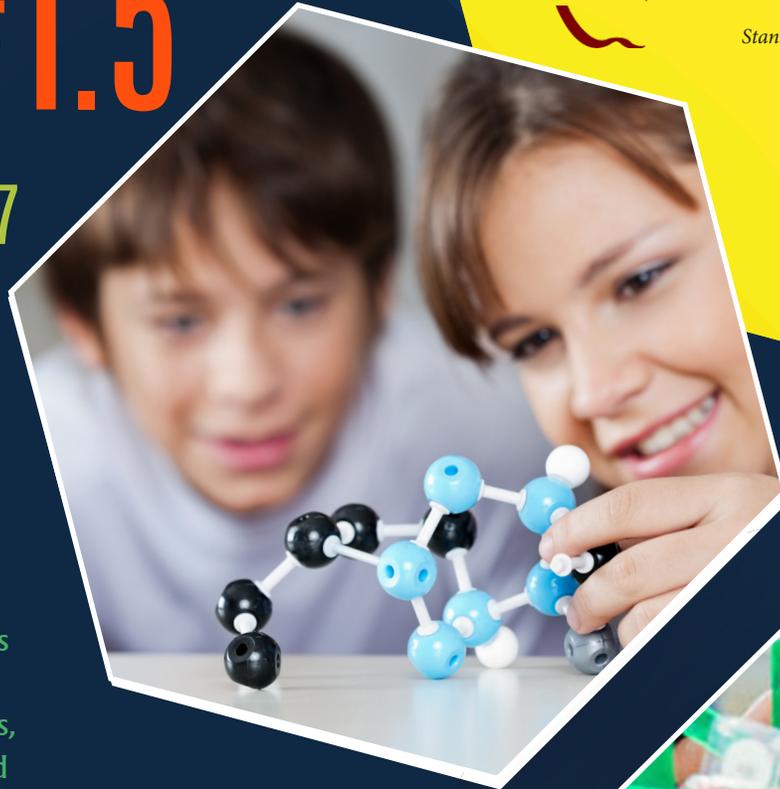
Grades K-12 educators, curriculum leads, and administrators. District teams are encouraged.

COST

\$250 per attendee. Fee includes all materials, continental breakfast and lunch, both days. Pre-registration required.

REGISTER HERE

<http://sbceo.k12oms.org>



For more info, contact:

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AGENDA June 20, Day 1

Assigned Rooms – Refer to your name badge. Please do not change rooms!

7:30 – 8:00 a.m.	Continental Breakfast & Welcome
8:00 – 8:10 a.m.	Welcome & Assessment
8:10 – 9:30 a.m.	Deepening Your Understanding of NGSS (Assigned Rooms)
9:30 – 12:00 p.m.	But What Does It Look Like?/NGSS Lesson (Assigned Rooms) K – 2, 3 – 5, 6 – 8, 9 – 12, & Admin
12:15 – 1:00 p.m.	Lunch (Provided)
1:00 – 4:00 p.m.	NGSS Implementation Tool
4:00 – 4:30 p.m.	District Planning Time

June 21, Day 2

Assigned Rooms – Refer to your name badge. Please do not change rooms!

7:30 – 8:00 a.m.	Continental Breakfast & Welcome (Assigned Rooms)
8:00 – 11:30 p.m.	Practices (Assigned Rooms) Administration (Assigned Rooms)
11:30 – 12:15 p.m.	Lunch (Provided)
12:15 – 3:00 p.m.	Breakout Sessions (Assigned Rooms) <ul style="list-style-type: none">· Administration· Cross Cutting Concepts· K-5 Engineering· Middle School· High School
3:00 – 4:30 p.m.	Next Steps and Action Plan <i>Breakout Rooms Available As Needed for Districts/Teams</i>

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SESSION DESCRIPTIONS

DAY 1

Deepening Your Understanding of NGSS (Plenary Session): Engage with the Conceptual Shifts to refine your understanding of the NGSS vision for science education for all students. Learn about the importance of developing a professional learning plan to prepare teachers for the NGSS. Discuss the types of administrative and system supports necessary to implement these learning plans.

But What Does It Look Like? (Select Grade-band): Apply the tool to a learning sequence for grades K-2, 3-5, 6-8 or 9-12 and experience what the learning looks like in a classroom over a multi-day lesson. Discuss with grade level colleagues how this applies to your classroom and your instruction.

NGSS Implementation Tool (Plenary Session): Learn how to use a tool for developing a unit of instruction that creates a conceptual flow for building student understanding and identifies Performance Expectations, Disciplinary Core Ideas, Science and Engineering Practices and Cross-Cutting Concepts that support that understanding. . Learn how to order concepts from a conceptual flow and Phenomenon-Question-Practice (PQP) chart into an instructional sequence that resonates with the 5Es (engage, explore, explain, elaborate, evaluate) instructional model.

DAY 2

Teaching Through the Practices (Select Grade-band): Experience the coherent integration of the NGSS Scientific and Engineering Practices from the observation of a phenomenon to constructing an explanation for those observations. This session focuses on three practices: 1) developing and revising models, 2) engaging in argument from evidence, and 3) constructing explanations, and it provides instructional strategies for each practice.

Break-Out (Select 1 Choice)

Administrator Strand (Rollout 2): Learn how to support the implementation of NGSS at your school site and in your district through exploring various implementation resources and collaborating with other administrative leaders. This session emphasizes strategies to move from awareness to transition.

The 3rd Dimension - Crosscutting Concepts (Rollout 2): Learn how the seven crosscutting concepts of the Next Generation Science Standards deepen understanding of the Practices and Core Ideas and lead to productive inquiry. This hands-on workshop will explore ways to help students use the crosscutting concepts to think like scientists and engineers.

K-5 Engineering in a Three Dimensional Lesson (Rollout 2): Experience the NGSS Engineering Design Core Ideas of defining a problem, designing a solution, and optimizing that design solution. Learn how content specific performance expectations are linked to engineering and how engineering helps students to learn at the nexus of the Science and Engineering Practices, Disciplinary Core Ideas and the Cross Cutting Concepts.

Middle School Progressions: Explore the State Board of Education's preferred integrated standards for middle school and the alternative discipline-specific model. Discuss possible implementation strategies for the integrated model.

High School Session (Rollout 2): Review the policy issues related to the implementation of NGSS at the high school level. Explore and compare sample HS course sequences that might be appropriate for your district. Discuss strategies for leading school/district discussions with stakeholders about which model(s) are best for your context.