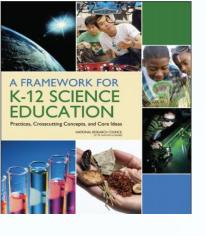


Introduction to the NGSS

May 4, 2015
Marie Schirmer, Administrator
Jan Robertson, Science TOSA
Bob Miller, Teacher, Pine Hollow





A Framework for K-12 Science Education

Practices, Crosscutting Concepts, and Core Ideas

A New Vision for Teaching and Learning

- Science for ALL Students
- 3 Dimensional Coherent
- Learning across Grades

Practices Change Science Education

From the science classroom as environments where students learn about science ideas



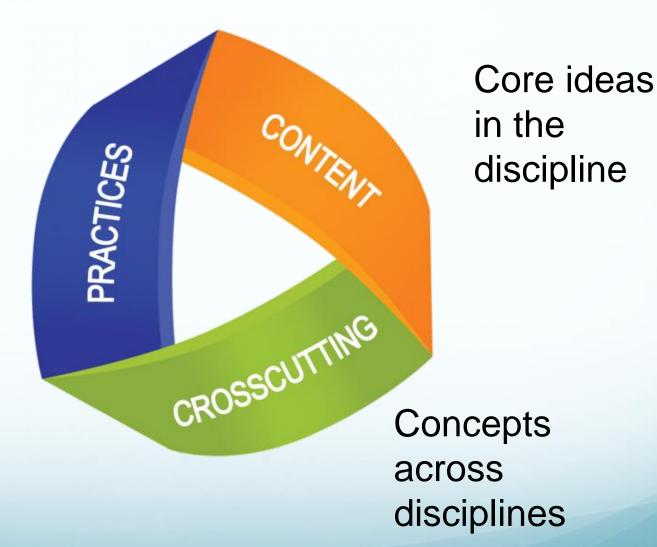
to places where students
explore, examine, and use
science ideas to explain how
and why phenomena occur.





What's in a Logo?

Science and Engineering





New Science Standards

- CDE adopted the Next Generation Science Standards (NGSS) in September 2013
- Like the Common Core, the NGSS represent a huge shift in how science is taught and learned.
- NGSS focuses on student sense-making of the natural world.



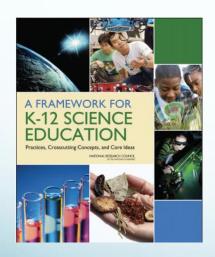
2011

2012

2013

2014

Design Phase



Step 1: Vision for Science





Step 2: Develop **NGSS**

Awareness Phase

CA **Adoption** of NGSS

Begin CA Science **Framework**

Middle School Sequence **Options** Announced



2014-



2015-2016



2016-



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Awareness Phase

Initial systems planning Establish collaborations

Transition Phase

CA Framework approved Jan 2016

Needs assessment

Build foundational resources, PD

Expand

Implementation Phase

Expand Professional
Learning support
Align curriculum,
instruction, assessments

MDUSD NGSS Roll Out Committee



- Volunteer representatives from each site k-12 and community
- 3 year membership
- Building Leadership and Capacity
 Articulation/Community/Team Building
- Receiving and presenting NGSS PD
- Create 3-5 year Strategic Plan





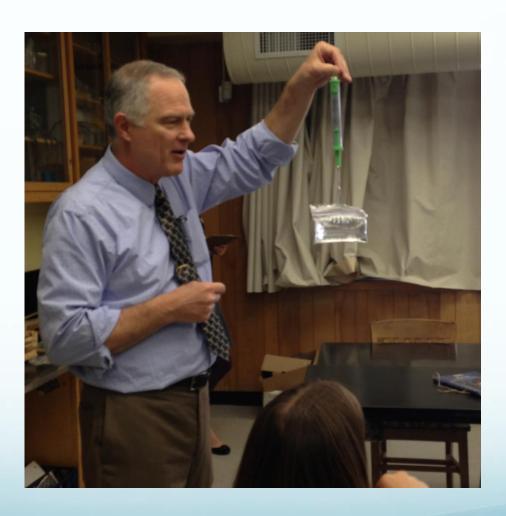
MDUSD Science Vision Statement (draft)

- Mt Diablo Unified School District will ensure that all students are provided with a rich science curriculum which embodies the core ideas of science and bridges science and engineering to guide all students as they become responsible global citizens.
- The curriculum will provide tools and critical thinking skills necessary to enable life-long learning and to better adapt to the ever-changing world.

Partners

- Contra Costa County Office of Education
- Alameda County Office of Education, Integrated Middle School Science (IMSS)
- California State University East Bay
- University of California at Berkeley
- Gateways
- Project Lead the Way
- CDE

Pine Hollow Middle School



Learn by Doing

