



TOM TORLAKSON
State Superintendent
of Public Instruction

Next Generation Science Standards

State Implementation Plan for California



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Goal: Develop an Implementation Plan that addresses each NGSS Primary Stakeholder System

- California Department of Education Plan
- Local Education Agency Plan
- Support Provider Plan

Based on the strategies utilized in the CCSS ELA and the ELD standards implementation plans



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Strategic Leadership Team (SLT) Composition:

- ACSA
- CTA
- CSTA
- COEs
- UC
- PTA
- Subject Matter Project
- Informal Science
Education Providers
- Expanded Learning
- Pre-k, Elementary, Middle
School, High School,
Postsecondary teachers
- Support Organizations
- Business Representatives
- SBE representatives were
present at all meetings.

Facilitated by the West Ed/K-12 Alliance in collaboration
with the CDE Professional Learning Support Division



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Timeline

- Committee Meetings - Sacramento
 - March 6 & 7
 - Interview Constituents on Content of Plan
 - April 7 & 8
 - Survey Constituents on Content of Plan
 - May 20 & 21
- April SBE Memorandum
- May SBE Information Item
- July Preliminary Draft for SBE
- September Revised Draft for SBE Approval



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Strategies for Implementing NGSS

1. Facilitate Professional Learning
2. Provide Aligned Instructional Resources
3. Develop Aligned Assessment Systems
4. Collaborate with Parents, Early Childhood, Extended Learning
5. Collaborate with Post Secondary, Business and Stakeholders
6. Disseminate Supporting Resources
7. Establish Communication Systems
8. Build Coalitions



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PEM Criteria

Individual Element

- Element increases in depth and complexity over time.
- Descriptions in columns clearly state action(s), not philosophical underpinnings.
- Actions are appropriate for phase (awareness, transition, implementation).

All Elements

- Elements are related to each other.
- Elements work together to create a systemic approach to the implementation of NGSS.

Example: Strategy #4 for Support Providers

Collaborate with parents, guardians, and the early childhood and extended learning communities to integrate the NGSS into programs and activities beyond the K–12 school setting.

Element	Awareness (What and Why)	Transitions (How)	Implementation (How Well)
Communication			
Products and Tools	Support providers collaboratively work with CDE to develop a timeline for a multi-media set of advocacy tools..(e.g. <i>Power Points, newsletter templates, tip sheets, moments of science, real life careers, science in afterschool and early childhood, science in the environment.</i>)	Support providers collaboratively work together with CDE to develop the tools and kits for regional dissemination. (e.g. <i>see first box plus kits for family science, how to help your child through field trips etc.</i>)	Support providers collaboratively work together with CDE to update multi-media set of tools.
Professional Development Plan			
Resources			



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STRATEGY	ELEMENTS
<p>1. Facilitate high quality professional learning opportunities for educators to ensure that every student has access to teachers who are prepared to teach to the levels of rigor and depth required by the CA NGSS.</p>	Policy and Legislation
	State Leadership Think Tank
	Resources to Support All Teachers
	Lighthouse Districts Network
	Administrator Training
	Teacher Leadership Academies
<p>2. Provide CA NGSS-aligned instructional resources designed to meet the diverse needs of all students.</p>	Instructional Resources - Investigation and Ensuring Access
	Ensuring Equity
	Understanding the Framework
	Instructional Pathways
<p>3. Develop and transition to CA NGSS-aligned assessment systems to inform instruction, establish priorities for professional learning, and provide tools for accountability.</p>	Development of Formative Assessments
	Development of State Summative Assessment Tools
<p>4. Collaborate with parents, guardians, and the early childhood and extended learning communities to integrate the CA NGSS into programs and activities beyond the K–12 school setting.</p>	Communication - All Communication is Multi-Lingual
	Products and Tools -All Products and Tools are Multi-Lingual
	Professional Development – (e.g., Parent Training)
	Resources and Policy



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Strategy	Elements
5. Collaborate with the postsecondary and business communities and additional stakeholders to ensure that all students are prepared for success in career and college.	Establish & Utilize Networks
	Communication
	College and Career Pathways
6. Seek, create, and disseminate resources to support stakeholders as CA NGSS systems implementation moves forward.	Resources- Identify the Need in Time, People, Money, and Products
	Investigation of Existing Resources
	Develop/ Create Resources
	Dissemination of Resources
7. Design and establish systems of effective communication among stakeholders to continuously identify areas of need and disseminate information.	Professional Development
	Communication Tools
	Stakeholders
	Resources
8. Build coalitions to ensure the message of importance for science education, grades Kindergarten through grade 8 and to sustain momentum during implementation of NGSS.	Coalition
	Messages/Missions
	Materials and Dissemination



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Next Steps

- Next SLT meeting May 20- 21 at CDE
 - Gather information from Surveys
 - Revise plan according to feedback and new information
- Create Implementation Plan Document
- Present Draft to SBE in July for feedback
- Present Revised Plan to SBE in September for Approval