



# Update on the State Implementation Plan for

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## California Next Generation Science Standards for Public Schools, Kindergarten through Grade Twelve.



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# General Positive Statements Within the Comments

- Inclusion of local support providers as valuable members of the implementation stakeholder group
- Inclusion of the roles of the major partners
- Logical structure that follows clear stepping points for each strategy
- Appreciation of the eight key strategies and systematic actualization for every student within the plan
- Attention to public communications and collaboration among educators, support providers, businesses, and community groups. 2



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# Comments Requesting Additional Information be Included in Plan

- Funding and costs associated with implementation
- Environmental Principles and Concepts within the plan
- Professional learning focused on CA NGSS for all teachers but an emphasis on elementary teachers who may not have the deep content knowledge necessary to teach comprehensive science content as will be expected with the CA NGSS.
- The Assessment Division within CDE has provided revisions to the draft plan that align with the comments received from the field. Strategy 3 will be revised based on the information received.



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# Timeline

- More explicit information and additional details needed to have a clear understanding.
- Implementation should begin in younger grades and move through to the upper grade levels.

# Strategy 1: Professional Learning Opportunities



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- Need for professional learning for all teachers but elementary and middle school teachers in particular to be addressed more directly
- Additional professional learning in Space and Earth Science
- Include IHEs and all levels of administration in PL
- Recommendations for who should provide PL
- Science teacher credentialing needs to align with CA NGSS
- Teacher Preparation programs need to address science content



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## Strategy 2: NGSS-aligned instructional resources to meet diverse needs

- Evaluation of resources and best practices that will be included in Digital Center.
- Need greater emphasis on equity and access.
- Inclusion of EP&Cs in plan and instructional materials.
- Integration of CA NGSS and CA CCSS in the plan.
- Collaboration with other states who have adopted NGSS.
- Classroom resources to meet diverse needs of students.



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# Strategy 3: Assessment Systems

- Assessment needs to address all dimensions of CA NGSS.
- Emphasis of assessment needed in plan.
- Need for hands-on assessments as well as digital formative and summative assessment tools and resources.
- Timeline needed for assessment.



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# Strategy 4: Collaboration with parents, guardians, and others

- Increased public awareness of CA NGSS before implementation in the classroom and implementation of assessment.
- Indicate instructional products and tools for CA NGSS in early education and expanded learning settings.
- More details on the Digital Center and how it will operate.

# Strategy 5: Collaborate with the postsecondary and business communities and additional stakeholders



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- Create collaborative policy making partnerships to ensure implementation activities leverage the resources and expertise of external.
- In collaboration with Postsecondary, teacher preparation component could be addressed.



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# Strategy 6: Seek, create, and disseminate resources

- Plan should explicitly address scope and scale of costs and the need for funding and resources for classrooms, LEAs, external partners, the state, and professional learning.
- Digital Center needs to have transparent criteria/metrics or a process for analyzing what will be included and who will do this work.



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# Strategy 7: Establish systems of effective communication among stakeholders

- The CDE should use lessons learned from the implementation of the CA CCSS to build a communication plan.
- Which division of CDE will have responsibility for supporting each of the strategies needs to be included.



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# Strategy 8: Build coalitions to ensure a common message (3)

- Create an ongoing multi-stakeholder leadership group, building on the Strategic Leadership Team to move implementation forward with a CDE leader as the point person.
- Before moving forward with new collaboratives and pathways, consider funding teacher level activities, resources, and direct classroom supports.



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# Additional Comments Received

- 44 comments were also received that requested the State Board of Education rescind the adoption of the NGSS.
- The letters did not comment on any part of the Implementation Plan.



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# Next Steps

- The CDE recommends the board receive public comment and provide additional input on revisions needed.
- The CDE will collaborate with the SBE in revising the plan based on public comments and internal comments.
- Present the NGSS Implementation Plan at the November SBE meeting and request approval.