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Who is Achieve?

Education Non-profit

• Provide technical assistance
• Convene states, experts, and partners
• Develop advocacy resources
• Conduct research

Next Generation Science Standards

• Coordinated development
• Host the standards at https://nextgenscience.org
• Convene states, districts, experts, and partners
• Coordinate/develop implementation resources
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Implementation Planning

- Curriculum
- Instruction
- Professional Learning
- Assessment
nextgenscience.org

The Standards
Standards Development
Instruction and Assessment
Implementation Planning
The NGSS

DCI and Topics Arrangements

Searchable Appendices

Evidence Statements

https://www.nextgenscience.org/search-standards
NGSS Appendices

- A--Conceptual Shifts
- B--Responses to Public Drafts
- C--College and Career Readiness
- D--All Standards, All Students
- E--Disciplinary Core Ideas
- F--Science and Engineering Practices
- G--Crosscutting Concepts
- H--Nature of Science
- I--Engineering Design
- J--Science, Technology, Society and the Environment
- K--Model Course Mapping
- L--Connections to Mathematics
- M--Connections to ELA
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Standards Development

Why Standards Matter

How to Read the Standards

Development of the Standards
Standards Development
Instruction and Assessment
Implementation Planning
Evaluating Instructional Materials

--better materials selection
--better materials development
--building educator capacity
NGSS Innovations

1. Making Sense of phenomena and designing solutions to problems

2. 3-D learning and assessment

3. K-12 Progressions
   --All Three Dimensions
   --Engineering design and nature of science

4. Explicit connections with ELA & math

5. All standards, all students
EQuIP Suite of Tools

--NGSS Screener
--EQuIP Rubric for Science
--PEEC
Peer Review Panel

--K-12, subject area, and EQuIP Rubric for Science expertise

--Partnership with NSTA curators

--Use EQuIP Quality Review process

--First quality examples shared

--Multi-year project
Assessment

- The standards themselves
- Evidence statements
- Classroom tasks

Coming soon...

- Assessment alignment criteria
- Task rubric
Implementation Resources

--District Implementation planning

--Example Bundles

--Phenomena paper/video

--Classroom Sample Tasks

--Accelerated Course Pathways

--Communication/Messaging/videos
• NGSS Parent Guides
• NGSS Fact Sheet
• NGSS Overview for Principals
• videos on: bundling the standards, how to read the standards, why they are important, the accelerated course pathways, making claims from evidence, transitioning to the NGSS, SEPs, DCIs, CCCs, and more...
Vision of the Framework

ALL students:

--explain the world around them

--engage in public discussions on science-related issues

--be critical consumers of scientific information related to their everyday lives

--appreciate that current scientific understanding is the result of many hundreds of years of creative human endeavor

--continue to learn about science throughout their lives
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