NEXT GENERATION
SCIENCE
STANDARDS
For States, By States
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Science students engaged in engineering education help complex American science-related problems throughout their lives.

Scientific understanding continues to involve ideas that engage students with technology-rich, hands-on projects.

Engaging courses provided throughout the K-12 education framework help students gain greater scientific knowledge.

Core practices of science and engineering address the major global issues of our time, such as preventing water pollution and advancing medical research.

Visionary and creative solutions are needed to ensure a sustainable future for all people.

Courses in the sciences and engineering, particularly crosscutting topics like climate change and health, are critical to maintaining diversity and understanding the world around us.
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
NGSS Innovations

1. Explaining phenomena and designing solutions
2. 3-D learning and assessment
3. K-12 Progressions
   --All Three Dimensions
   --Engineering design and nature of science
4. Explicit connections/alignment with ELA & math
5. All standards, all students
NGSS Implementation

--NGSS Development

--Building Capacity

--Systems change

--Vision