

Agenda

What is the NGSS?

Framework

Format of
Standards

Integration with
Curriculum



What Are the NGSS?

NGSS are:

- Performance expectations focused on the connection between the three dimensions of science learning
- Performance expectations that require students to demonstrate proficiency
- Designed to lead to a coherent understanding of the Practices, CCC, and DCIs

NGSS are **NOT**:

- Separate sets of isolated inquiry and content standards
- Curriculum or instructional tasks, experiences, or materials
- Meant to limit the use of Practices or Crosscutting Concepts in instruction
- Designed to be separate or isolated experiences

What's New? The NGSS Conceptual Shifts:



1. The NGSS reflect the **real world interconnections** in science.

2. The NGSS are student outcomes and are **NOT curriculum**.

3. NGSS concepts **build coherently across K–12**.

4. Focus on **deeper understanding and application** of content

5. Science and **engineering** are integrated.

6. Designed to **prepare students for college, career, and citizenship**.

7. **Coordinate with ELA and Math CCSS!**

Title

3. Interdependent Relationships in Ecosystems: Environmental Impacts on Organisms

Performance
Expectations
(PE)

Performance Expectations
Performance expectations are the assessable statements of what students should know and be able to do.

Science and Engineering
Practices

Disciplinary
Core Ideas

Crosscutting
Concepts

Foundations

Connection
Boxes

Connections to

- Other science disciplines at this grade level
- Other DCIs for older and younger students
- Common Core State Standards in Mathematics and Language Arts

Math

Science

- M1:** Make sense of problems and persevere in solving them
- M2:** Reason abstractly & quantitatively
- M6:** Attend to precision
- M7:** Look for & make use of structure
- M8:** Look for & make use of regularity in repeated reasoning

- E6:** Use technology & digital media strategically & capably
- M5:** Use appropriate tools strategically

- M4:** Models with mathematics
- S2:** Develop & use models
- S5:** Use mathematics & computational thinking

- E2:** Build a strong base of knowledge through content rich texts
- E5:** Read, write, and speak grounded in evidence
- M3 & E4:** Construct viable arguments and critique reasoning of others
- S7:** Engage in argument from evidence

- S1:** Ask questions and define problems
- S3:** Plan & carry out investigations
- S4:** Analyze & interpret data
- S6:** Construct explanations & design solutions

- S8:** Obtain, evaluate, & communicate information
- E3:** Obtain, synthesize, and report findings clearly and effectively in response to task and purpose

- E1:** Demonstrate independence in reading complex texts, and writing and speaking about them
- E7:** Come to understand other perspectives and cultures through reading, listening, and collaborations

Commonalities Among the Practices in Science, Mathematics and English Language Arts

ELA

Based on work
by Tina Chuek
ell.stanford.edu

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Inspired Instruction, LLC.
Standards Solution Holding
www.inspiredinstruction.com

196 Belvidere Avenue
Washington, NJ 08722
Phone: 908-223-7570
Fax: 908-223-7570

Michele.Regan@inspiredinstruction.com
Jaclyn.Siano@inspiredinstruction.com