

Next Generation Science Standards at a Glance



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Table 1. The Three Dimensions of the CA NGSS

Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts
<p>SEP-1. Asking questions and defining problems</p> <p>SEP-2. Developing and using models</p> <p>SEP-3. Planning and carrying out investigations</p> <p>SEP-4. Analyzing and interpreting data</p> <p>SEP-5. Using mathematics and computational thinking</p> <p>SEP-6. Constructing explanations (for science) and designing solutions (for engineering)</p> <p>SEP-7. Engaging in argument from evidence</p> <p>SEP-8. Obtaining, evaluating, and communicating information</p>	<p>Physical Science</p> <p>PS1: Matter and its interactions</p> <p>PS2: Motion and stability: Forces and interactions</p> <p>PS3: Energy</p> <p>PS4: Waves and their applications in technologies for information transfer</p> <p>Life Science</p> <p>LS1: From molecules to organisms: Structures and processes</p> <p>LS2: Ecosystems: Interactions energy, and dynamics</p> <p>LS3: Heredity: Inheritance and variation of traits</p> <p>LS4: Biological evolution: Unity and diversity</p> <p>Earth and Space Science</p> <p>ESS1: Earth’s place in the universe</p> <p>ESS2: Earth’s systems</p> <p>ESS3: Earth and human activity</p> <p>Engineering, Technology, and Applications of Science</p> <p>ETS1: Engineering Design</p> <p>ETS2: Links among engineering, technology, science, and society</p>	<p>CCC-1. Patterns</p> <p>CCC-2. Cause and effect: Mechanism and explanation</p> <p>CCC-3. Scale, proportion, and quantity</p> <p>CCC-4. Systems and system models</p> <p>CCC-5. Energy and matter: Flows, cycles, and conservation</p> <p>CCC-6. Structure and function</p> <p>CCC-7. Stability and Change</p>

Common CA NGSS Acronyms

CCC:	Crosscutting Concept
DCI:	Disciplinary Core Idea
ETS:	Engineering, Technology, and Applications of Science
PE:	Performance Expectation
SEP:	Science and Engineering Practices

CCSS Connections

CCSS:	Common Core State Standards
CC:	Counting and Cardinality
EE:	Expressions and Equations
F:	Functions
G:	Geometry
MD:	Measurement and Data
NBT:	Number and Operations in Base Ten
NF:	Number and Operations–Fractions
NS:	The Number System
OA:	Operations and Algebraic Thinking
RI:	Reading Informational Text
RL:	Reading Literature
RP:	Ratios and Proportional Relationships
RST:	Reading in Science and Technical Subjects
SL:	Speaking and Listening
SP:	Statistics and Probability
W:	Writing
WHST:	Writing in History/Social Studies, Science, and Technical Subjects