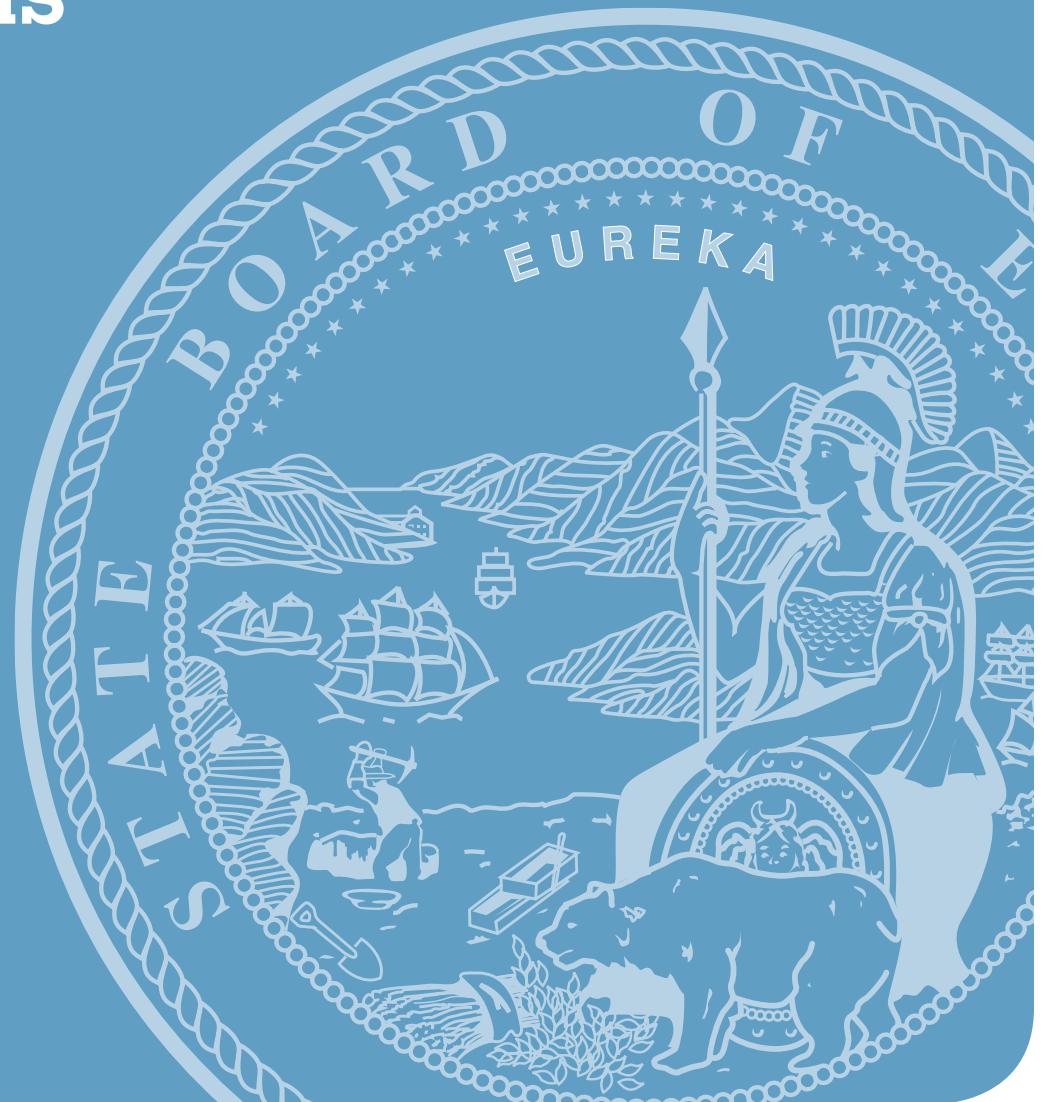


Next Generation Science Standards at a Glance



Next Generation Science Standards at a Glance



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