NGSS Performance Expectation

Analysis **KEY**

Grade Level: The grade level(s) of the Performance Expectation

DCI: Disciplinary Core Idea

Title of the Standard: Heading on the top of the page of the standard

P.E.: Performance Expectation

AB: Assessment Boundary

CS: Clarification Statement

SEP: Science and Engineering Practice

CC: Crosscutting Concepts

CCSS: Common Core State Standards

RL: Reading Literature
RI: Reading Informational Text
RF: Reading Foundational Skills
W: Writing
SL: Speaking & Listening
L: Language
RST: Reading Science & Technical Subjects
WHST: Writing in History, Science, & Technical Subjects

CC: Counting and Cardinality
OA: Operations & Algebraic Thinking
NBT: Number & Operation in Base Ten
NF: Number & operations-Fractions
MD: Measurement and Data
G: Geometry
RP: Ratios and Proportional Relationships
NS: Number System
EE: Expressions and Equations
F: Functions
SP: Statistics and Probability

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Science and Engineering Practices

1. Asking Questions (for science) and Defining Problems (for engineering)
2. Developing and Using Models
3. Planning and Carrying Out Investigations
4. Analyzing and Interpreting Data
5. Using Mathematics and Computational Thinking
6. Constructing Explanations (for science) and Designing Solutions (for engineering)
7. Engaging in Argument from Evidence
8. Obtaining, Evaluating, and Communicating Information

Disciplinary Core Ideas

PHYSICAL SCIENCES
PS1: Matter and Its Interactions
PS2: Motion and Stability: Forces and Interactions
PS3: Energy
PS4: Waves and Their Applications in Technologies for Information Transfer
LIFE SCIENCES
LS1: From Molecules to Organisms: Structures and Processes
LS2: Ecosystems: Interactions, Energy, and Dynamics
LS3: Heredity: Inheritance and Variation of Traits
LS4: Biological Evolution: Unity and Diversity
EARTH AND SPACE SCIENCES
ESS1: Earth's Place in the Universe
ESS2: Earth's Systems
ESS3: Earth and Human Activity
ENGINEERING, TECHNOLOGY, AND APPLICATIONS OF SCIENCE
ETS1: Engineering Design
ETS2: Links Among Engineering, Technology, Science, and Society

Crosscutting Concepts

1. Patterns
2. Cause and Effect: Mechanisms and Explanation
3. Scale, Proportion, and Quantity
4. Systems and System Models
5. Energy and Matter: Flows, Cycles, and Conservation
6. Structure and Function
7. Stability and Change

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