**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

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**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

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**Crosscutting Concepts**

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

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