

**NGSS Performance Expectation**

Analysis **KEY**

**CCSS**: Common Core State Standards

**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

**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

**MP:** Math Practices



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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

5. Energy and Matter: Flows, Cycles, and Conservation

6. Structure and Function

7. Stability and Change

***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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***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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