



Science and Engineering Practices

1. Asking questions and Defining problems
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 and Designing Solutions
7. Engaging in argument from evidence
8. Obtaining, evaluating, and communicating information

Disciplinary Core Ideas

- Physical Sciences
 - PS1- Matter and It's 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 the Application of Science
 - ETS1- Engineering Design
 - ETS2- Links Among Engineering, Technology, Science, and Society

Crosscutting Concepts

- Patterns
- Cause and Effect
- Scale, Proportion, and Quantity
- Systems and System Models
- Energy and Matter
- Structure and Function
- Stability and Change



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