Science and Engineering Practices

Asking questions and defining problems

Developing and using models

Planning and carrying out investigations

Analyzing and interpreting data

Using mathematics and computational thinking

Constructing explanations and designing solutions

Engaging in argument from evidence

Obtaining, evaluating, and communicating information

Crosscutting Concepts

Patterns

Cause and effect

Scale, proportion, and quantity

Systems and system models

Energy and matter

Structure and function

Stability and change

Disciplinary Core Ideas

Life Science	Earth & Space Science	Physical Science
From molecules to organisms: Structures and processes	Earth's place in the universe	Matter and its interactions
Ecosystems: Interactions, energy, and dynamics	Earth's systems	Motion and stability: Forces and interactions
Heredity: Inheritance and variation of traits	Earth and human activity	Energy
Biological evolution: Unity and diversity		Waves and their applications in technologies for information transfer

Engineering, Technology, and the Application of Science