



Scope and Sequence

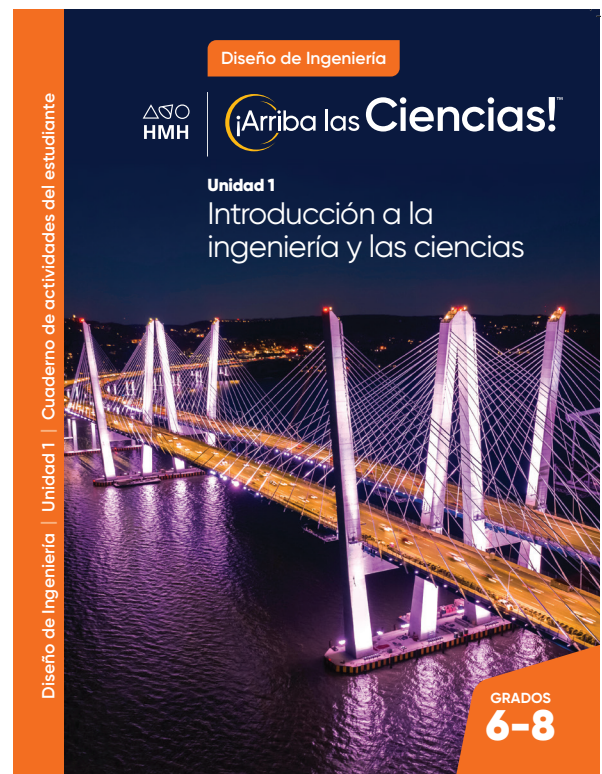
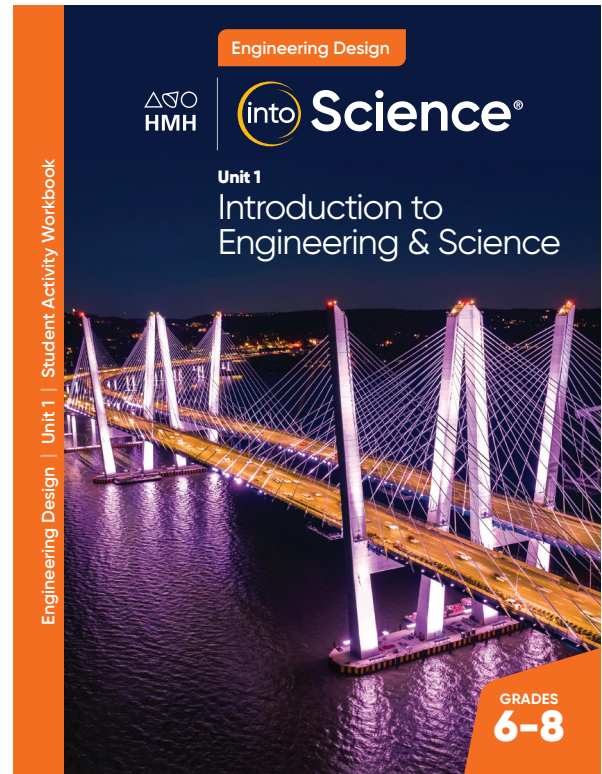
Grades 6–8

Engineering & Design

Unit 1: Introduction to Engineering and Science

ETS1-1, ETS1-2, ETS1-3, ETS1-4

- Lesson 1: Engineering, Science, and Society
- Lesson 2: Researching and Defining Problems
- Lesson 3: Developing and Testing Solutions
- Lesson 4: Optimizing and Testing Solutions



Life Science

Unit 1: Cells and Organization in Organisms

LS1-1, LS1-2, LS1-3, LS1-8

Lesson 1: Cell Structure and Function

Lesson 2: Plant Body Systems

Lesson 3: Animal Body Systems

Unit 2: Reproduction, Heredity, and Growth

LS1-4, LS1-5, LS3-2

Lesson 1: Inheritance and Reproduction

Lesson 2: Plant Reproduction and Growth

Lesson 3: Animal Reproduction and Growth

Unit 3: Matter and Energy in Living Systems

LS1-6, LS1-7, LS2-1, LS2-2, LS2-3

Lesson 1: Matter and Energy in Organisms

Lesson 2: Resource Availability Affects Organisms

Lesson 3: Interactions in Ecosystems

Lesson 4: Matter and Energy in Ecosystems

Unit 4: Ecosystem Dynamics

LS2-4, LS2-5*

Lesson 1: Biodiversity in Ecosystems

Lesson 2: Changes in Ecosystems

Lesson 3: *Engineer It: Maintaining Biodiversity

Unit 5: The History of Life on Earth

LS4-1, LS4-2, LS4-3

Lesson 1: The Fossil Record

Lesson 2: Patterns of Change in Life on Earth

Lesson 3: Evidence of Common Ancestry

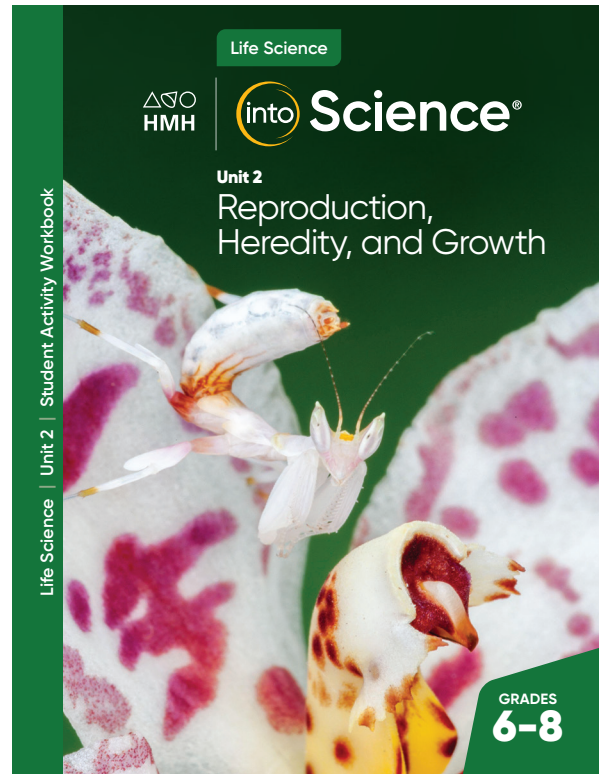
Unit 6: Evolution

LS3-1, LS4-4, LS4-5, LS4-6

Lesson 1: Genetic Change and Traits

Lesson 2: Natural Selection

Lesson 3: Human Influence on Traits



Earth and Space Sciences

Unit 1: Circulation of Earth's Air and Water

ESS2-4, ESS2-6

Lesson 1: Circulation in Earth's Atmosphere

Lesson 2: Circulation in Earth's Oceans

Lesson 3: The Water Cycle

Unit 2: Weather and Climate

ESS2-5, ESS2-6

Lesson 1: Weather and Weather Prediction

Lesson 2: Influences on Climate

Unit 3: The Dynamic Earth

ESS2-1, ESS2-2, ESS2-3

Lesson 1: Geologic Change and Surface Processes

Lesson 2: The Rock Cycle

Lesson 3: Earth's Plates

Unit 4: Earth Through Time

ESS1-4

Lesson 1: The Age of Earth's Rocks

Lesson 2: Earth's History

Unit 5: Earth's Natural Hazards

ESS3-2

Lesson 1: Natural Hazard Prediction

Lesson 2: *Engineer It: Reducing the Effects of Natural Hazards

Unit 6: Resources in Earth Systems

ESS3-1, ESS3-4

Lesson 1: Natural Resources

Lesson 2: Human Population and Resource Use

Lesson 3: Resource Use and Earth's Systems

Unit 7: Human Impacts on Earth Systems

ESS3-3*, ESS3-5

Lesson 1: *Engineer It: Reducing Human Impacts on the Environment

Lesson 2: Climate Change

Unit 8: Patterns in the Solar System

ESS1-1

Lesson 1: The Earth-Sun-Moon System

Lesson 2: Seasons

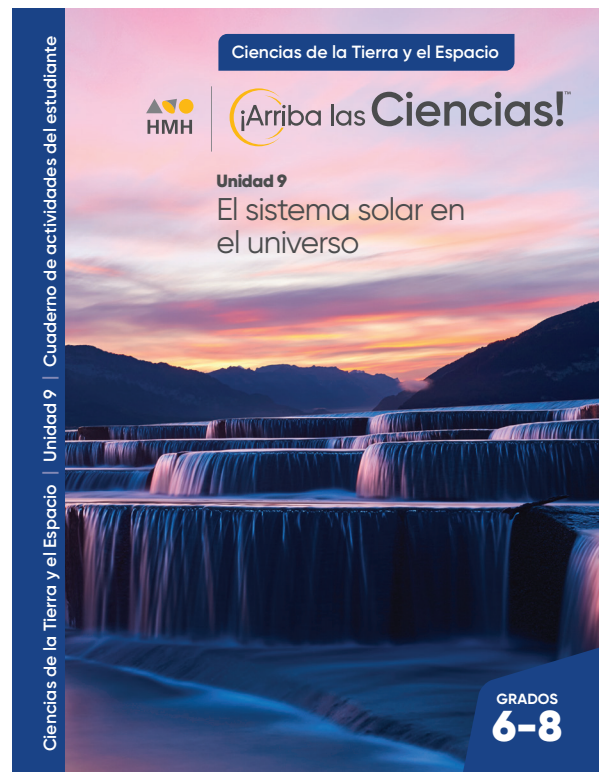
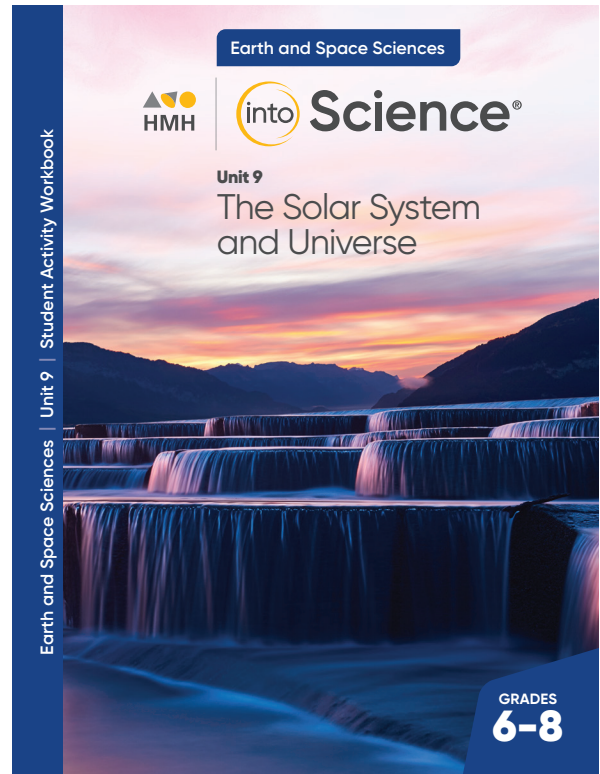
Unit 9: The Solar System and Universe

ESS1-2, ESS1-3, PS2-4

Lesson 1: Earth and the Solar System

Lesson 2: Gravity and the Universe

Lesson 3: Modeling in Space Science



Physical Science

Unit 1: Energy

PS3-1, PS3-2, PS3-5

- Lesson 1: Introduction to Energy
- Lesson 2: Changes in Energy
- Lesson 3: Engineer It: Transforming Energy

Unit 2: Energy Transfer

PS3-3*, PS3-4

- Lesson 1: Temperature and Heat
- Lesson 2: *Engineer It: Thermal Energy Transfer in Systems

Unit 3: The Structure of Matter

PS1-1, PS1-4

- Lesson 1: The Properties of Matter
- Lesson 2: Changes of State
- Lesson 3: Atoms and Elements
- Lesson 4: Molecules and Extended Structures

Unit 4: Chemical Processes and Equations

PS1-2, PS1-5, PS1-6*

- Lesson 1: Chemical Reactions
- Lesson 2: Chemical Equations
- Lesson 3: *Engineer It: Thermal Energy and Chemical Processes

Unit 5: The Chemistry of Materials

PS1-3

- Lesson 1: Natural and Synthetic Materials
- Lesson 2: *Engineer It: The Life Cycle of Synthetic Materials

Unit 6: Forces and Motion

PS2-1*, PS2-2

- Lesson 1: Introduction to Forces
- Lesson 2: Newton's Laws of Motion
- Lesson 3: *Engineer It: Collisions between Objects

Unit 7: Electric and Magnetic Forces

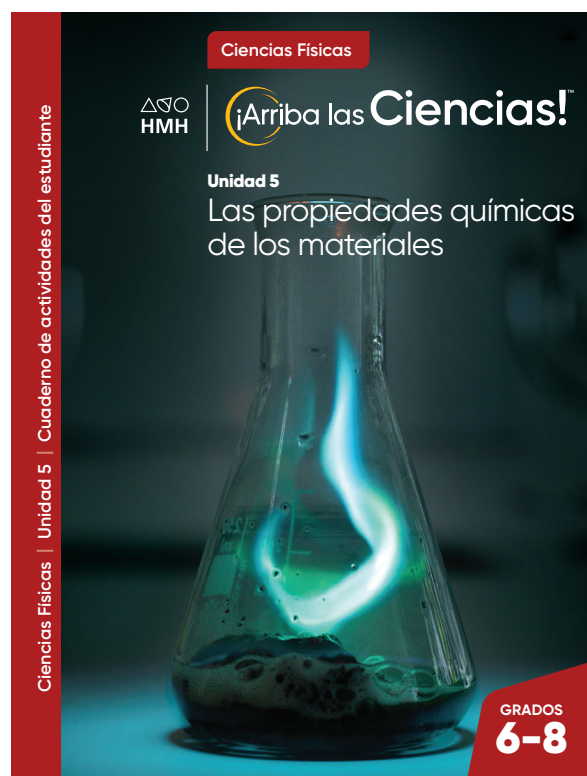
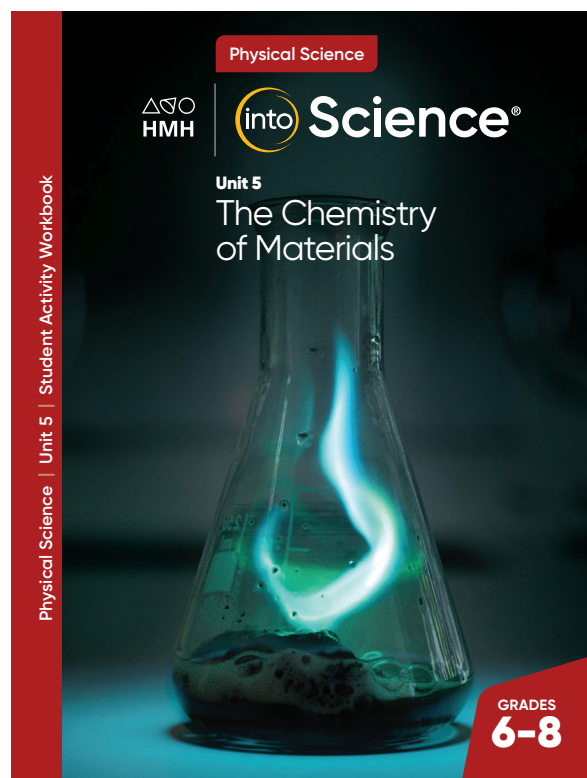
PS2-3, PS2-5

- Lesson 1: The Magnetic Force
- Lesson 2: The Electric Force
- Lesson 3: Fields
- Lesson 4: Electromagnetism

Unit 8: Waves and Information Transfer

PS4-1, PS4-2, PS4-3

- Lesson 1: Introduction to Waves
- Lesson 2: The Behavior of Mechanical Waves
- Lesson 3: The Behavior of Light Waves
- Lesson 4: Information Transfer





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