

South Carolina Middle School Grade 7 Science delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore concepts such as the classification and conservation of matter, organization in living systems, heredity and variation of traits, and interactions of living systems and the environment.

The two-semester course is arranged in themed units, each with two to three lessons. In each unit, activities make complex ideas accessible to students as they discover the nature of science through focused content, interactive mini-investigations, multi-modal representations, and personalized feedback. Each lesson includes a variety of activities such as direct instruction, application of skills, performance tasks, and formative and summative assessments. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through standards-aligned content and demonstrate their learning through computer- and teacher-scored assignments.

This course is built to the Next Generation Science Standards for middle school science.

Length: Two Semesters

Unit 1: Nature of Science

- What Is Science?
- Types of Investigations
- Using Models
- Wrap-Up: Nature of Science

Unit 2: Measurement and Data

- Tools and Measurement
- Displaying and Interpreting Data
- Wrap-Up: Measurement and Data

Unit 3: Nature of Matter

- What Is Matter?
- Atomic Structure
- Elements and the Periodic Table
- Wrap-Up: Nature of Matter

Unit 4: Describing Matter

- Physical and Chemical Properties
- Solids, Liquids, and Gases
- Mixtures of Matter
- Wrap-Up: Describing Matter

Unit 5: Changes in Matter

- How Can Matter Change?
- Changes of State
- Chemical Equations
- Wrap-Up: Changes in Matter

Unit 6: Earth's Matter

- Minerals
- Soil
- Wrap-Up: Earth's Matter

Unit 7: Semester Wrap-Up

Unit 8: Movement of Matter Through Ecosystems

- Characteristics of Ecosystems
- Interactions in Ecosystems
- Wrap-Up: Movement of Matter Through Ecosystems

Unit 9: Changing Ecosystems

- Succession and Ecosystem Stability
- Impacts of Humans
- Wrap-Up: Changing Ecosystems

Unit 10: Cells and Diversity of Life

- Cell Structure
- Domains and Kingdoms of Life
- Wrap-Up: Cells and Diversity of Life

Unit 11: Cell Processes

- Cell Nutrition and Transport
- Cell Growth and Reproduction
- Wrap-Up: Cell Processes

Unit 12: Multicellular Bodies

- Specialized Cells and Tissues
- Organs and Organ Systems
- Wrap-Up: Multicellular Bodies

Unit 13: The Human Body

- Human Organ Systems
- Disease and Human Health
- Wrap-Up: The Human Body

Unit 14: Genetics

- Inheritance
- Genes and DNA
- Biotechnology
- Wrap-Up: Genetics

Unit 15: Semester Wrap-Up

Science 7

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