Science Grade 6 is a two-semester course aligned to the Texas Essential Knowledge and Skills (TEKS) for Grade 6. The course delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Science 6 explores concepts including science and engineering practices; how elements and mixtures are classified; solids, liquids, and gases; chemical changes; energy transfer and transformation; waves and energy; force and motion; Earth's structure and cycles; resource management; the Sun-Earth-moon system; cells; the characteristics of organisms; and relationships in ecosystems. Activities throughout the course make complex ideas accessible to students as they discover the nature of science through focused content, interactive mini-investigations, multimodal 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. The course allows students to 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.

The materials needed for this course include specified lab materials.

Length: Two Semesters

Unit 1: Science and Engineering

- Introduction to Science
- Scientific Investigations
- What Is Engineering?
- Wrap-Up: Science and Engineering

Unit 2: Tools of Inquiry

- Using Models
- Measurement and Tools
- Interpreting and Displaying Data
- Wrap-Up: Tools of Inquiry

Unit 3: Classifying Matter

- Types of Matter
- The Periodic Table of Elements
- Solids, Liquids, and Gases
- Wrap-Up: Classifying Matter

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Unit 4: Matter and Change

- Properties of Matter
- Types of Mixtures
- How Can Matter Change?
- Wrap-Up: Matter and Change

Unit 5: Energy

- Describing Energy
- Energy Transfer and Transformation
- Wrap-Up: Energy

Unit 6: Waves and Energy

- Mechanical Waves
- Energy of Electromagnetic Waves
- Wrap-Up: Waves and Energy

Unit 7: Semester Wrap-Up

- Semester Wrap-Up

Unit 8: Forces

- Forces in Action
- Balanced and Unbalanced Forces
- Wrap-Up: Forces

Unit 9: Planet Earth

- Earth's Structure and Cycles
- The Rock Cycle
- Wrap-Up: Planet Earth

Unit 10: Resource Management

- Natural Resources
- Managing Resources
- Wrap-Up: Resource Management

Unit 11: Motions in Space

- Gravitational Force
- The Earth-Sun-Moon System
- Wrap-Up: Motions in Space

Unit 12: Life on Earth

- Characteristics of Living Things
- Cell Structure

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- Wrap-Up: Life on Earth

Unit 13: Ecology

- Ecosystem Characteristics
- Relationships in Ecosystems
- Wrap-Up: Ecology

Unit 14: Semester Wrap-Up

- Semester Wrap-Up

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