Florida Middle School M/J Comprehensive Science 3 delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore concepts such as the nature of the universe, how matter and energy move through living systems, and the physical and chemical properties of matter.

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: 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: Nature of Matter

- What Is Matter?
- Atomic Structure
- 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


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

### Unit 6: Semester Wrap-Up

### Unit 7: Earth's Living Systems

- Characteristics of Life
- Matter and Energy in Ecosystems
- Wrap-Up: Earth's Living Systems

### Unit 8: Matter and Energy of Living Systems

- Chemistry of Life
- Cell Nutrition and Transport
- Wrap-Up: Matter and Energy of Living Systems

### Unit 9: Forces in the Solar System

- Gravitational Force
- The Earth-Sun-Moon System
- The Solar System
- Wrap-Up: Forces in the Solar System

### Unit 10: Beyond Our Solar System

- The Universe
- The Sun and Other Stars
- Wrap-Up: Beyond Our Solar System

### Unit 11: Space Exploration Technology

- The Electromagnetic Spectrum
- Waves and Technology
- Exploring Space
- Wrap-Up: Space Exploration Technology

### Unit 12: Semester Wrap-Up


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