

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: NATURE OF SCIENCE

- Lesson 1: What Is Science?
- Lesson 2: Types of Investigations
- Lesson 3: Using Models
- Lesson 4: Wrap-Up: Nature of Science

UNIT 2: MEASUREMENT AND DATA

- Lesson 1: Tools and Measurement
- Lesson 2: Displaying and Interpreting Data
- Lesson 3: Wrap-Up: Measurement and Data

UNIT 3: NATURE OF MATTER

- Lesson 1: What Is Matter?
- Lesson 2: Atomic Structure
- Lesson 3: Elements and the Periodic Table
- Lesson 4: Wrap-Up: Nature of Matter

UNIT 4: DESCRIBING MATTER

- Lesson 1: Physical and Chemical Properties
- Lesson 2: Solids, Liquids, and Gases
- Lesson 3: Mixtures of Matter
- Lesson 4: Wrap-Up: Describing Matter

UNIT 5: CHANGES IN MATTER

- Lesson 1: How Can Matter Change?
- Lesson 2: Changes of State
- Lesson 3: Chemical Equations
- Lesson 4: Wrap-Up: Changes in Matter

UNIT 6: FORCES

- Lesson 1: Effects of Forces
- Lesson 2: Gravitational Force

- Lesson 3: Wrap-Up: Forces

UNIT 7: SEMESTER WRAP-UP

- Lesson 1: Semester Wrap-Up

UNIT 8: FORCES IN THE SOLAR SYSTEM

- Lesson 1: Sun-Earth-Moon System
- Lesson 2: Our Solar System
- Lesson 3: Wrap-Up: Forces in the Solar System

UNIT 9: BEYOND OUR SOLAR SYSTEM

- Lesson 1: The Universe
- Lesson 2: Our Sun and Other Stars
- Lesson 3: Wrap-Up: Beyond Our Solar System

UNIT 10: SPACE EXPLORATION TECHNOLOGY

- Lesson 1: Electromagnetic Waves
- Lesson 2: Waves and Technology
- Lesson 3: Space Exploration
- Lesson 4: Wrap-Up: Space Exploration Technology

UNIT 11: PLANET EARTH

- Lesson 1: The Earth System
- Lesson 2: Severe Weather
- Lesson 3: Minerals
- Lesson 4: Wrap-Up: Planet Earth

UNIT 12: EARTH'S LIVING SYSTEMS

- Lesson 1: Characteristics of Life
- Lesson 2: Interactions in Ecosystems
- Lesson 3: Wrap-Up: Earth's Living Systems

UNIT 13: MATTER AND ENERGY OF LIVING SYSTEMS

- Lesson 1: Chemistry of Life
- Lesson 2: Cell Nutrition and Transport
- Lesson 3: Plant Responses
- Lesson 4: Wrap-Up: Matter and Energy of Living Systems

UNIT 14: SEMESTER WRAP-UP

- Lesson 1: Semester Wrap-Up