

Florida Middle School M/J Comprehensive Science 1 delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore concepts such as Earth's structures, systems, and patterns; the organization, development, and evolution of organisms; and the relationship between force and motion.

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: FORCE AND MOTION

- Lesson 1: Describing Forces
- Lesson 2: Describing Motion
- Lesson 3: Effects of Forces
- Lesson 4: Wrap-Up: Force and Motion

UNIT 4: NONCONTACT FORCES

- Lesson 1: Electromagnetic Forces
- Lesson 2: Gravitational Force
- Lesson 3: Wrap-Up: Noncontact Forces

UNIT 5: FORCES AND PLANET EARTH

- Lesson 1: The Earth System
- Lesson 2: Weathering and Erosion
- Lesson 3: Plate Tectonics
- Lesson 4: Wrap-Up: Forces and Planet Earth

UNIT 6: ENERGY

- Lesson 1: Describing Energy
- Lesson 2: Energy Transfer and Transformation
- Lesson 3: Wrap-Up: Energy

UNIT 7: ENERGY AND WAVES

- Lesson 1: Mechanical Waves
- Lesson 2: Electromagnetic Waves
- Lesson 3: Interactions of Waves and Matter
- Lesson 4: Wrap-Up: Energy and Waves

UNIT 8: SEMESTER WRAP-UP

- Lesson 1: Semester Wrap-Up

UNIT 9: ENERGY AND EARTH'S SYSTEMS

- Lesson 1: Freshwater and Ice
- Lesson 2: Oceans
- Lesson 3: The Atmosphere
- Lesson 4: Wrap-Up: Energy and Earth's Systems

UNIT 10: WEATHER AND CLIMATE

- Lesson 1: Weather
- Lesson 2: Severe Weather
- Lesson 3: Climate
- Lesson 4: Wrap-Up: Weather and Climate

UNIT 11: NATURE OF LIFE

- Lesson 1: Characteristics of Life
- Lesson 2: Cell Structure
- Lesson 3: Wrap-Up: Nature of Life

UNIT 12: CELL PROCESSES

- Lesson 1: Cell Nutrition and Transport
- Lesson 2: Cell Growth and Reproduction
- Lesson 3: Wrap-Up: Cell Processes

UNIT 13: DIVERSITY OF LIFE

- Lesson 1: Domains and Kingdoms of Life
- Lesson 2: Classification of Living Things
- Lesson 3: Wrap-Up: Diversity of Life

UNIT 14: EVOLUTION AND ADAPTATIONS

- Lesson 1: Theory of Evolution
- Lesson 2: Natural Selection
- Lesson 3: Animal Behaviors
- Lesson 4: Wrap-Up: Evolution and Adaptations

UNIT 15: MULTICELLULAR BODIES

- Lesson 1: Specialized Cells and Tissues
- Lesson 2: Organs and Organ Systems
- Lesson 3: Wrap-Up: Multicellular Bodies

UNIT 16: THE HUMAN BODY

- Lesson 1: Human Organ Systems
- Lesson 2: Disease and Human Health
- Lesson 3: Wrap-Up: The Human Body

UNIT 17: SEMESTER WRAP-UP

- Lesson 1: Semester Wrap-Up