Florida Middle School M/J Comprehensive Science 2 delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore concepts such as how Earth's structures and organisms change over time, the interdependence of living systems and the environment, and how energy can be transferred and transformed.

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: Energy

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

Unit 4: Energy and Waves

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

Unit 5: Thermal Energy

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- Thermal Energy and Temperature
- Heat and Thermal Energy
- Wrap-Up: Thermal Energy

Unit 6: Thermal Energy and Change

- Changes of State
- Energy Transfer and Technology
- Wrap-Up: Thermal Energy and Change

Unit 7: Thermal Energy and Earth

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

Unit 8: Semester Wrap-Up

Unit 9: Our Changing Planet

- Deforming Earth's Crust
- Geologic Time
- Wrap-Up: Our Changing Planet

Unit 10: Earth's Plates

- Plate Tectonics
- Earthquakes and Volcanoes
- Wrap-Up: Earth's Plates

Unit 11: Humans and Earth's Resources

- Natural Resources
- Humans' Impact on Earth
- Wrap-Up: Humans and Earth's Resources

Unit 12: Reproduction

- Cell Growth and Reproduction
- Patterns of Reproduction
- Wrap-Up: Reproduction

Unit 13: Genetics

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

Unit 14: Ecology

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

Unit 15: Evolution

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- Theory of Evolution
- Natural Selection
- Wrap-Up: Evolution

Unit 16: Semester Wrap-Up

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