

5th Grade - Science

4th Grade Science

In Grade 5, students will learn about the Earth and the cosmos through guided classroom experiments and Socratic discussions that push learners to puzzle about the mysteries and contradictions of natural and physical phenomena. Beginning with the solar system and expanding into deep space, students will start the year with an appreciation for the incredible vastness of space, using digital resources to contextualize and understand just how unbelievably big the universe is. After studying the inconceivable enormity of stellar nebula, students will zoom in to the unbelievably small world of particles and atoms. With hands-on experimentation, scholars will understand how matter behaves when undergoing changes, both physical and chemical. Following this, students will briefly examine changes in the human body in adolescence, before returning to their study of energy in matter as it moves through complex ecosystems. Taking a step back from individual ecosystems, students will understand how the earth's interlocking spheres (such as the atmosphere, hydrosphere, geosphere, and biosphere) interact with, and affect, human lives. From there, students will research methods to protect against earthquakes, tsunamis, and volcanoes, leading to a final study concerning best practices for environmental conservation and protection of the Earth's natural habitats.

Unit 1: Astronomy

Unit 2: Investigating Matter

Unit 3: The Endocrine System

Unit 4: Energy & Matter in Ecosystems

Unit 5: Earth Systems

Unit 6: Protecting Earth's Systems