

Grade 4 Science Curriculum Map

By the end of fourth grade, students expand on the idea that energy from the Sun interacts with Earth systems and explore other forms of energy we use in everyday life. Students apply their understanding of the various Earth systems (geosphere, hydrosphere, atmosphere, biosphere) and how they interact with each other and heat from the Sun. Students understand how geological systems change and shape the planet and provide resources. Students also develop an understanding of how Earth processes and human interactions positively and negatively that can change environments impacting the ability for organisms to survive. Student investigations focus on collecting and making sense of observational data and simple measurements using the science and engineering practices: ask questions and define problems, develop and use models, plan and carry out investigations, analyze and interpret data, use mathematics and computational thinking, construct explanations and design solutions, engage in argument from evidence, and obtain, evaluate, and communicate information. While individual lessons may include connections to any of the crosscutting concepts, the standards in fourth grade focus on helping students understand phenomena through systems and system models, energy and matter, and stability and change.

Notes:

- The standards referenced in this document can be found linked [here](#)
- The standard number is designed for recording purposes and does not imply instructional sequence or importance.
- In all disciplines, educators should incorporate scientific measurement skills appropriate to that discipline.

Unit #	Unit Title	Key Content	Standards
1	Energy	<ul style="list-style-type: none"> • Energy transfer within a system, even when objects are not touching • Electric currents • Magnetic forces • Impact of renewable and nonrenewable resources to generate electricity 	4.P4U1.1 4.P4U1.2 4.P21U1.3 4.P4U3.4
2	Earth Science (Soils, Rocks, and Landforms)	<ul style="list-style-type: none"> • Seismic waves and their effect on the Earth • Interactions between Earth's major systems and the impact on Earth's surface materials and processes • Rock types, fossils, location, and landforms 	4.E1U1.5 4.E1U1.6 4.E1U1.7 4.E1U1.8 4.E1U3.9 4.E1U2.10

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		<ul style="list-style-type: none"> • Weather and climate patterns • Availability of water and its impact on life • Problems and solutions to minimize effects of natural hazards 	
3	Life Science (Soils, Rocks, and Landforms; Water and Climate; Structures of Life)	<ul style="list-style-type: none"> • Environmental data and changes in organisms' habitat • Impact of changes in organisms' habitat on organisms' survival 	4.L4U2.11

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