

Grade 5 Science Curriculum Map

By the end of fifth grade, students apply their understanding of scale at macro (time and space) and micro (particles of matter) levels to understand patterns and scale across life, earth and space, and physical sciences. Students will develop an understanding of forces, conservation of matter, and that genetic information can be passed down from parent to offspring. Student investigations focus on collecting and making sense of observational data and 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 fifth grade focus on helping students understand phenomena through patterns and scale, proportion and quantity.

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 Physical science	Mixtures and Solutions Motion and Matter	<ul style="list-style-type: none"> • Reactions and properties of matter • Mixtures • Solutions • Balanced and Unbalanced Forces • Effects of forces on motion of objects • Design solutions pertaining to force and motion • Energy transfer 	5.P1U1.1 5.P1U1.2 5.P2U1.3 5.P3U1.4 5.P3U2.5 5.P4U1.6
2 Earth and Space Science	Sun, Moon, and Planets	<ul style="list-style-type: none"> • Movement of Earth and Moon within solar system • Gravitational force of Earth on objects 	5.E2U1.7 5.E2U1.8
3 Life Science		<ul style="list-style-type: none"> • Patterns between the offspring of plants and animals • How genetic information is passed from one generation to 	5.L3U1.9 5.L3U1.10 5.L4U3.11 5.L4U3.12

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		<p>the next</p> <ul style="list-style-type: none">• Changes in an environment and development of traits in a population of organisms	
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