

## Grade 2 Science Curriculum Map

By the end of second grade, students understand the basic concept that energy can change the phase of matter and is necessary for life. Students begin to understand energy and matter, the formation of Earth's surface features, water cycles and energy flow, changes in the environment, patterns in the sky, and the conditions necessary for life on Earth. 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 second grade focus on helping students understand phenomena through systems and system models and energy and matter.

### 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	Solids and Liquids	<ul style="list-style-type: none"> <li>• Matter: Mass and its observable properties</li> <li>• Phase change in matter: heating and cooling</li> <li>• Heat energy: change in objects or materials</li> </ul>	2.P1U1.1 2.P1U1.2 2.P4U1.3
2	Pebbles, Sand, and Silt  Air and Weather	<ul style="list-style-type: none"> <li>• How wind and water change the shape of the land resulting in a variety of landforms</li> <li>• States of water</li> <li>• Water in oceans, glaciers, lakes, rivers, ponds, and the atmosphere</li> <li>• Weather conditions of various regions of the world</li> <li>• Solutions to protect humans from severe weather conditions</li> </ul>	2.E1U1.4 2.E1U1.5 2.E1U2.6 2.E1U3.7 2.E2U1.8

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3	Plants and Animals	<ul style="list-style-type: none"><li>• Needs of organisms to survive: energy, air, water, and temperature conditions</li><li>• How life on Earth depends on energy energy from the Sun and energy from other organisms</li></ul>	2.L2U1.9 2.L2U1.10
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