



4th Grade Science

“I Can” Statements

Physical Science

- I can investigate and recognize forces and motion. (lift, drag, friction, thrust, and gravity)
- I can investigate the relationship between speed and energy of objects.
- I can investigate how simple machines work.
- I can describe and investigate how energy is generated and converted.
- I can describe how energy is transferred by sound, light, heat, and electric currents.

Earth and Space Science

- I can explain how the moon moves, changes, and impacts Earth.
- I can explain solar and lunar eclipses.
- I can describe how energy and fuels come from natural resources and how they affect the environment.
- I can describe how geologic forces can change the land suddenly and over time.
- I can explain ways humans can reduce the impact on the environment.

Life Science

- I can observe how offspring is alike, but not exactly the same as the parent.
- I can describe the characteristics that help animals survive.
- I can explain how changes in the environment affect plants and animals.
- I can argue that plants and animals have internal and external structures that help them grow, behave, reproduce, and survive.

Engineering

- I can identify simple problems with design.
- I can construct multiple solutions to a problem.
- I can construct investigation with controlled variables.

Computer Science Standards

- I can code using basic algorithms.
- I can develop code using computer free activities.
- I can understand and use 1s and 0s to make code.
- I can use problem solving in code.
- I can make connections between computer science and other fields.
- I can use the keyboard and other input and output devices.
- I can understand how computers and computing are used in daily life.
- I can troubleshoot when computer problems occur.
- I can use technology to learn, problem solve, write, communicate, and publish my work.
- I can use technology to gather, use, and modify data.
- I can problem solve using programming language.
- I can use online resources to develop solutions.
- I can responsibly use technology and understand the impact of technology.
- I can understand security, privacy, and copyright.