

Science

Grades
6-8

By the end of the 6th through 8th Grade Program I can . . .

Earth and Space Sciences



- Describe the study of the universe – from the motion of objects to gravitational force – and the equipment used to study it.
- Describe the water cycle, and explain the transfer of energy between the atmosphere and hydrosphere.
- Describe events that change the Earth's surface.

Life Sciences



- Explain the functions of cells.
- Explain how energy is transferred from the sun to living organisms and through the environment.
- Explain the role of genetics and how variations in structure, behavior or physiology allow some organisms to enhance their survival in a particular environment.

Physical Sciences



- Explain how properties and chemical processes affect the particles that make up matter.
- Describe how objects move and the effects of forces on them.
- Describe different forms of energy as well as how these forms can be changed from one to another while the total amount remains constant.

Science and Technology



- Give examples of how technology affects quality of life.
- Design a solution or product taking into account key constraints (safety, time, cost, trade-offs, etc.).

Scientific Inquiry



- Explain how and why scientific procedures vary from one investigation to another.
- Use math skills to draw conclusions from scientific data.

Scientific Ways of Knowing



- Use the scientific inquiry process.
- Explain processes that increase the validity of scientific methods.
- Give examples of how scientific thinking helps in daily life.

These are just *some* of the things I can do. For more information about Science Standards, look for the Standards section on the CPS Web site: www.cps-k12.org

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