

Science

Grades
9-10

By the end of the 9th through 10th Grade Program I can . . .

Earth and Space Sciences



- Explain the interrelationship of celestial objects and the physical universe.
- Use geologic evidence to explain Earth's history.
- Explain processes that move and shape the earth's surface.
- Describe how humans can conserve or deplete limited natural resources.
- Summarize the development of scientific ideas as well as emerging Earth and Space Sciences issues.

Life Sciences



- Explain the function of cells and the processes by which they develop.
- Explain how genetics works.
- Explain how energy flows and matter cycles through different systems.
- Explain evolution and how it impacts the unity and diversity of life.
- Understand ecosystems and how they change, as well as the impact of humans on all natural systems.
- Describe natural selection and understand the continuing development of the biological evolutionary theory.

Physical Sciences



- Explain the structure and properties of atoms and how they interact with each other and with molecules.
- Describe how physical properties of an object can change without changing its chemical nature.
- Apply Newton's three laws of motion to objects.
- Understand different types of energy and how they can be transferred.

Science and Technology



- Explain how technological design responds to people's needs.
- Explain the interdependence of science and technology.

Scientific Inquiry



- Create models and design, conduct, evaluate and communicate results of scientific investigations.

Scientific Ways of Knowing



- Explain the practical requirements and ethics of scientific knowledge.
- Explain the key factors that define scientific inquiry.

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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