

Cocalico School District
Year-at-a-Glance - Curriculum Overview

Department: Science

Course: Science

Grade Level: 4th grade

Big Ideas

- Rocks and soil are formed and broken down by natural processes.
- Earth’s surface has landforms that have changed and continue to change.
- Electric current and magnets can be used for many purposes.
- The physical properties of matter can be used to identify it even if it has changed states or has been mixed with other matter.
- Motion can be measured and described.
- Living things can be grouped according to their characteristics.
- Living things inherit traits, grow, and develop according to life cycles.
- Living things are adapted for survival in their environment.

Units of Study	% of Course Time	Textbooks & Supplemental Materials	Assessments	Standards Addressed
• Rock Cycle	34 %	• HSP Science (2009) • Supplemental Resources	• Unit Assessment • Classroom Labs • Projects	• 3.5.4.A • 3.5.4.B
• Changes to Earth’s Surface		• HSP Science (2009) • Supplemental Resources	• Unit Assessment • Classroom Labs • Projects	• 3.5.4.A
• Making and Using Electricity		• HSP Science (2009) • Supplemental Resources	• Unit Assessment • Classroom Labs • Projects	• 3.1.4.A • 3.4.4.B
• Matter and Its Properties	33%	• HSP Science (2009) • Supplemental Resources	• Unit Assessment • Classroom Labs • Projects	• 3.1.4.D • 3.1.4E • 3.2.4.B • 3.4.4.B
• Forces and Motion		• HSP Science (2009) • Supplemental Resources	• Unit Assessment • Classroom Labs • Projects	• 3.1.4.B • 3.4.4.B • 3.4.4.C
• Classifying Living Things	33%	• HSP Science (2009) • Supplemental Resources	• Unit Assessment • Classroom Labs • Projects	• 3.1.4.A • 3.1.4.B • 3.3.4.A • 3.3.4.B
• Life Cycles		• HSP Science (2009) • Supplemental Resources	• Unit Assessment • Classroom Labs • Projects	• 3.3.4.C • 3.3.4.D
• Adaptations		• HSP Science (2009) • Supplemental Resources	• Unit Assessment • Classroom Labs • Projects	• 3.3.4.C • 3.3.4.D

Eagle P.A.C.T. Course Connections:

Students will **work with others** to research, observe, discover, **analyze** and conduct experiments related to the natural world around them. They will also **collaborate with peers** to develop **adaptations** or solutions to **authentic problems** which are relevant to their environments.

