

Water Education.

Dr. WaterWISE.

Dr. WaterWISE educates and actively engages children in water conservation efforts. Dr. WaterWISE teaches standards-based activities to third, fourth and fifth grade students to help them learn about ways we use and measure water.



With Dr. WaterWISE, students will:

- collect and analyze personal water use data
- participate in activities related to science, math and geography standards
- discover how they can *make every drop count*

Storm drain stenciling.

Many people are not aware that storm drains lead to nearby streams and drain into the Poudre River. Your organization can stencil the message, *Dump No Waste, Drains to Poudre*, near storm drains as a visible reminder of the consequences of improper waste disposal in storm drains. This is a project for our entire community, youth and adults alike. We provide all equipment and maps.



WaterSHED.

Explore hands-on, standards-based science and math activities in local water environments with the WaterSHED Program. Walk with us to a wetland or take a field trip to the Poudre River. We provide trained professionals to lead activities, supply field equipment and bring everything you need for a successful scientific experience.

- elementary school: wetland and water cycle studies, stream ecology, stream flow and landforms
- middle school: stream ecology, biological adaptations, watershed protection, water quality
- high school: specialized watershed projects, water chemistry, biotic indices and ecological diversity in streams and rivers

PREP (Poudre River Ecology Partnership)

Mountain elementary schools participate in a unique, ecological field study of the Poudre River Watershed. Field trips include standards-based measurements at set locations. Collaborative projects link city and mountain school students in forest and water studies.

Energy and Water Youth Education.



Choose from A Variety of Hands-on, Curriculum-based Classes and Events, for Indoors and Out.

Energy Education.

Energizing our lives – energy sources and alternatives lab.

(upper elementary)

Students will learn about energy sources and conservation through a 16-station hands-on lab and will:

- power lights with their own energy
- use watt meters, light meters and current technology
- discover how electricity is generated from non-renewable and renewable energy sources

Powering our future – energy transformations and technology lab.

(middle school)

Students rotate through an active, fun and engaging 14-station lab to learn about energy transformation and will:

- change mechanical energy to electrical energy
- explore smart grid and smart meter technology
- learn many ways to conserve energy



Windy ways engineers – design and test wind turbine blades.

(upper elementary)

Students use their imaginations and creativity to construct and test their own turbine blades and will:

- gain basic wind energy information
- design and test blades for optimum speed
- examine how blade shape and design affects energy output

The power of wind – wind inquiry lab.

(middle school and high school)

Explore wind energy through this powerful lesson. Students will:

- become engineers and experiment with large model wind turbines
- use their own creativity and analytical thought processes
- test multiple variables

Meet Mina Edison – a living history. *(elementary)*

Students are fully engaged as they listen to a living history of Mina Edison and her life with Thomas Edison. They will gain an understanding of Thomas' contribution to technology we still use today. This program includes:

- hands-on opportunities with an Edison phonograph and telegraph
- photos of Edison's friends and life

Energy Rules in our schools – energy teams.

(elementary, middle and high school)

Be the energy champion and work with a team of students to manage the energy use in your school. We provide materials, ideas, activities, incentives and ongoing support.

