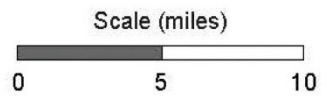
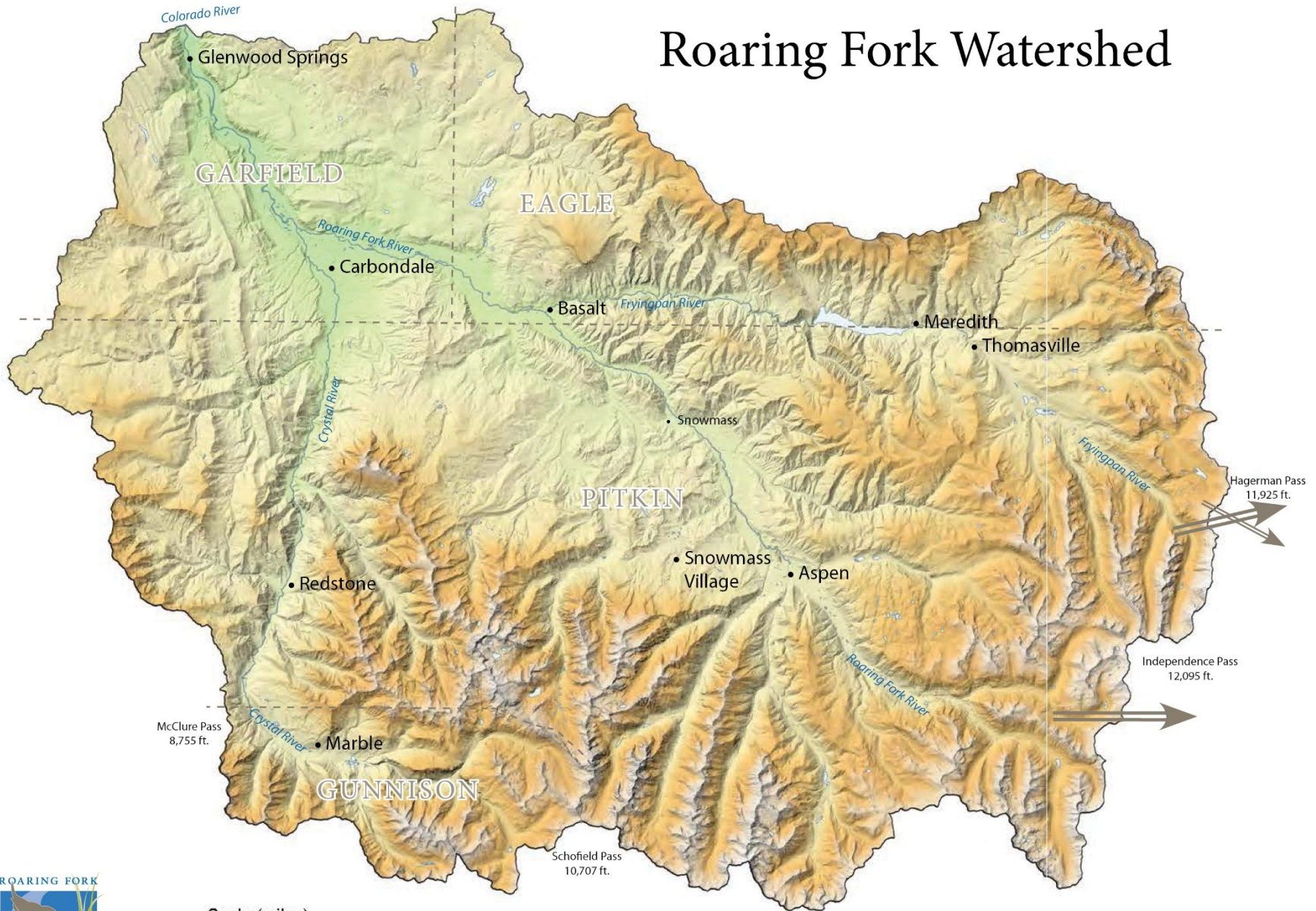


The New Normal of Watershed Education: Getting Kids' Hands Wet

Sarah Johnson, Education Outreach Coordinator
Roaring Fork Conservancy
Basalt, CO



Roaring Fork Watershed



Mission: To inspire people to explore, value and protect the Roaring Fork Watershed.

We focus on...



Water Quantity
keeping water in our rivers



Water Quality
keeping our rivers healthy



Habitat Preservation
keeping our riparian habitat intact

How We

Do It



Watershed Action



Watershed Education

"If this is what they call **Watershed Education**, it's pretty cool!"

- Click to read Master text series
- Second level
- Third level
- Fourth level
- Fifth level

Champion Teachers

"Sure glad we got this field trip scheduled early in the year – wouldn't want to miss the opportunity."



District Speak

Academic Standards,
Schedules,
School Culture,
Existing Field Trips &
Outdoor Ed,
Risk Management
BE FLEXIBLE



Standards, Standards, Standards...

How Teachers Feel About Standards

- They have to teach them.
- Assessments based on standards
- Can't do field trips or programs that don't fulfill standards

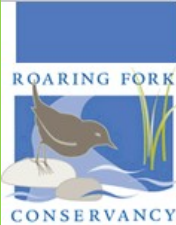
Why Do We Have to Deal With Standards Anyway?

We want to teach school kids.
Get us into schools
Qualify what we're doing
Legitimize our programs



However...

- Watershed Education conducted for a short duration (hit and run), once or twice a year will never allow for students to master an academic standard.
- Our programs serve as opportunities to enrich, enhance, compliment, and expand upon the academic standards.



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6th Grade

Programs listed below have been correlated with the new Science and Social Studies Colorado Academic Standards implemented in the 2011-2012 school year in the Roaring Fork Valley.

6th Grade Programs Correlated to Colorado Academic Standards

	Description	Phy Sci 1.3	Phy Sci 1.4	Life Sci 2.1	Life Sci 2.2	Earth Sci 3.1	Earth Sci 3.2	Earth Sci 3.3	Geo 2.1	Geo 2.2	Econ 3.1	Civ 4.1	Civ 4.2
Water Underground: Groundwater Model	Use the scientific method and the groundwater model to explore groundwater's hidden role in the water cycle. Learn how water moves underground and how human actions can affect the quality of groundwater. <i>Classroom</i>						X			X			X
What's the Point of Pollution?	Use the EnviroScape watershed model to manage land to minimize water pollution and be responsible citizens. This lesson explores human impacts on surface water. <i>Classroom</i>						X		X	X			X
Water Quality Field Trip	Students will use survey the health of a stream measuring pH, temperature, dissolved oxygen, and conductivity			X			X			X			X
Insectopia: Exploring the World of Aquatic Insects	Explore how environmental conditions affect the survival and diversity of aquatic insects by collecting, observing, and interpreting water bugs. We'll use nets to collect insects, field scopes to identify them and the pollution tolerance index to measure the stream's water quality based on the insects we find. <i>Field or Classroom</i>			X						X			X
Landslides: Erosion in Action	Students will learn how landslides affect local rivers and streams by creating their own mini-landslides and visiting recent geology in action at a major land-slide erosion feature. <i>Field: Coal Creek near Redstone</i>					X				X			

Schedule a Program

Call Tim O'Keefe or Sarah Johnson at 927-1290 or email sarah@roaringfork.org.

Schedule early - programs fill quickly, especially in the spring!

Plumbing the Colorado River



Groundwater Model



What's the Point of Pollution?



donated by [Carbonate Quarry](#) and [Esteban Lodge](#)

Snow Science



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ROARING FORK CONSERVANCY Glenwood Springs Elementary 4th Grade EE: Exploring Your Watershed

Watershed: an area of land where all the water flows to one place.

In-Classroom Lessons	<p><u>August</u> Importance of Water <i>1hr/classroom</i> <i>\$200 total</i></p>	<p><u>October</u> What in the World is a Watershed <i>1hr/classroom</i> <i>\$200 total</i></p>	<p><u>November</u> Seeing Watersheds <i>1hr/classroom</i> <i>\$200 total</i></p>	<p><u>January</u> Sum of the Parts <i>1hr/classroom</i> <i>\$200 total</i></p>	<p><u>February</u> Water History <i>1hr/classroom</i> <i>\$200 total</i></p>	<p><u>March</u> Watershed Life Zones <i>1hr/classroom</i> <i>\$200 total</i></p>
	<p><i>Objective:</i> Students will be introduced to EE for the year and will discuss how people affect water looking at the pros and cons. They will also explore the importance of water and its many uses. Pretest will be done.</p>	<p><i>Objective:</i> Students will explore the definition of watershed, make individual watershed maps and use topographical maps.</p>	<p><i>Objective:</i> Students will define the term watershed, understand the concept of a watershed, and find local watersheds using maps.</p>	<p><i>Objective:</i> Students will study how everyone contributes to the health or detriment of a river as it flows through a watershed and recognize that everyone's contribution and impacts can be reduced.</p>	<p><i>Objective:</i> Students will learn what roles water has played in the lives of inhabitants of the Roaring Fork Valley over the last 150 years.</p>	<p><i>Objective:</i> Students will define the various life zones within the Roaring Fork Watershed and learn how these life zones are determined by physical factors such as elevation, water, temperature, and aspect.</p>
	<p>Standards <i>Social Studies 2.1.a</i> <i>Social Studies 3.1.c</i> <i>Social Studies 4.1.b</i></p>	<p>Standards <i>Social Studies 2.1.a</i> <i>Social Studies 2.2.a</i> <i>Social Studies 2.2.c</i></p>	<p>Standards <i>Social Studies 2.1.a</i> <i>Social Studies 2.2.a</i> <i>Social Studies 2.2.c</i></p>	<p>Standards <i>Social Studies 2.1.c</i> <i>Social Studies 2.2.a</i> <i>Social Studies 3.1.c</i> <i>Social Studies 4.1.b</i></p>	<p>Standards <i>Social Studies 1.1.b</i> <i>Social Studies 1.2.d</i> <i>Social Studies 2.2.a</i> <i>Social Studies 2.2.c</i> <i>Social Studies 3.1.c</i></p>	<p>Standards <i>Social Studies 2.1.a</i> <i>Science 2.3.b</i> <i>Science 2.3.c</i></p>
Field Trips	<p><u>September</u> Riparian Ecology Roaring Fork River walking field trip river trail by football field <i>1hr/classroom</i> <i>\$200 total</i></p>	<p><u>April</u> Aquatic Insects at Roaring Fork River walking field trip Veltus Park <i>4hr/classroom,</i> <i>\$200 total</i></p>	<p>Teacher Lead Activity</p>	<p>2012-2013 Projected 4th graders = 92 = 4 classrooms</p> <p>Approximated cost \$1,600</p> <p>Cost/student = \$17.40</p>		
<p>1 classroom at a time</p> <p>Riparian habitat study food webs</p>	<p>Entire 4th grade rotating through 4 stations:</p> <ol style="list-style-type: none"> 1. Insectopia 2. Fly Tying 3. Macro-Mayhem game 4. Journaling/Post Test 	<p>Make a plan to positively impact a local ecosystem.</p>	<p>Teachers Lesyle Hoover Lisa Olson Lora Smith Monique Beck</p>			
<p>Standards <i>Science 2.1.b</i> <i>Science 2.3.b</i> <i>Science 2.3.c</i></p>	<p>Standards <i>Science 2.1.b</i> <i>Science 2.3.a</i></p>	<p>Standards <i>Science 2.3.e</i></p>				



Bring Money to the Table

Walking
Field Trips
= Free

Buses = Cost

- Click to edit Master text styles
- Second level
- Third level
- Fourth level
- Fifth level

Children's Water
Education Fund



Keeping it Relevant and Authentic



Questions? Thoughts?

Sarah Johnson
sarah@roaringfork.org
970-927-1290

