



See Vermont as it was  
200 YEARS AGO

A digital archive of historic and current  
photo pairs, educational resources, and more!

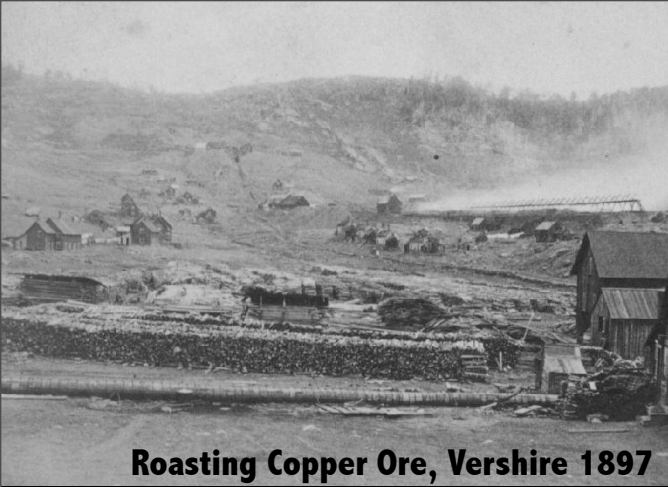


# TEACHERS (and Kids) DIG OLD PHOTOS!

## LOCAL TEACHERS MAKE CURRICULUM FOR THE LANDSCAPE CHANGE PROGRAM



**Christine Massey & Paul Bierman**  
Landscape Change Program, Univ. of



**Roasting Copper Ore, Vershire 1897**



**Flooding, Montpelier 1927**

**We use old photos to understand Vermont.**



**Family Farmstead, Randolph 1915**



**Roadbuilding, Burlington, 1935**



You searched for: **rocks**. Here are the results:

Refine Search

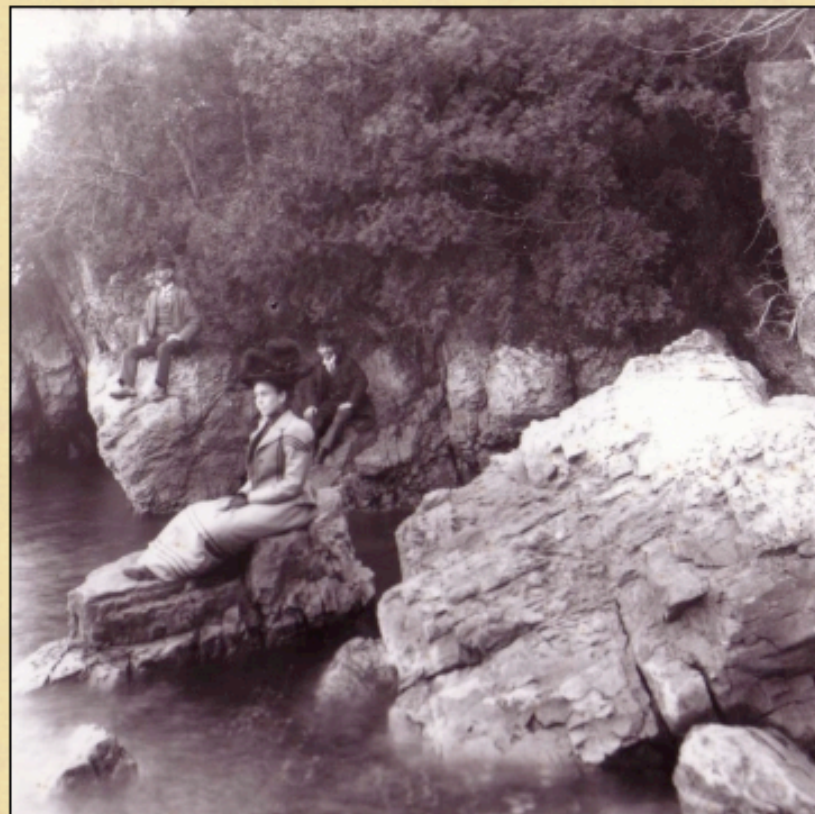
Distribution

Image Details

List

Thumbnails

Now Showing Image 6 of 1229



## "Mr. M Jack & I" on the Lake Shore at Lone Rock Point

Town:

[Burlington](#)

County:

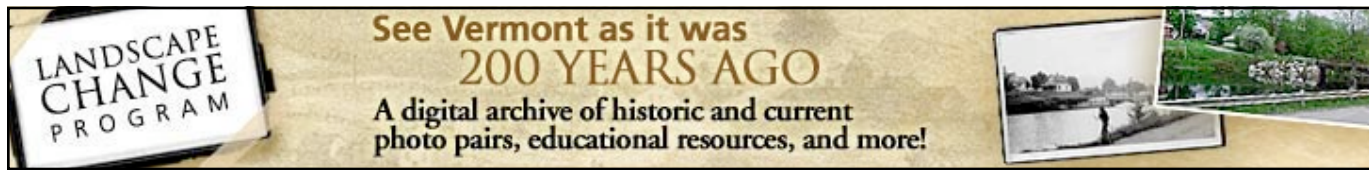
[Chittenden](#)

Date:

No Date

Description:

Photo of two men and a woman on **rocks** at Lone Rock Point. Same people as LS02029. In the foreground are several large dolostone boulders. Further behind you can see the bedrock that these boulders eroded out of. The point itself is densely covered in deciduous trees. You can see Lake Champlain water lapping onto these **rocks**. Bedding can be made out in a couple of the boulders



# K-12 Best-Practices Curriculum

- **Find Local Teachers**

(networking, current LCP site users, PLACE advocates)

- **Multi-level Approach**

(curricula for novice teachers through field-savvy teachers)

- **Feb. 06: 2-day workshop at UVM for Level 2**

(in-class activities +/- technology)



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# Feb. 2006 Level 2 Team





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# Level 2 Lessons

## Science

### "GEO-

Snapshots"  
4-5)  
geology

Where Have All the  
Elm Trees Gone?  
(Gr. 7-8)  
invasive species

Dams, Logging,  
Floods, Erosion...  
Oh My!! (Gr.  
watersheds

### Language Arts

(Gr. Before and After  
Stories  
(Gr. 4+)  
storyboards

"Sense" of Place  
(Gr. 6-8)  
sensory language

SCHOOL DAZE  
GAZETTE:  
Schools Then and  
Now newspaper  
(Gr. 9-12)

### Social Science

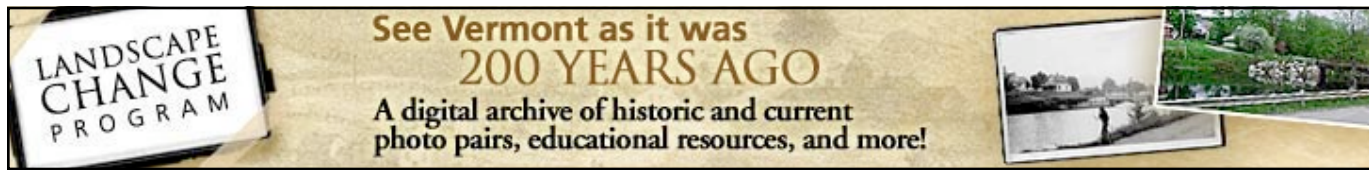
Photo Detectives  
(Gr. 1-2)  
town history

What's the DAM  
Project?  
(Gr. 6-8)  
people's impact

Time Travel  
(Gr. 6-12)  
lifestyles

### Technology

Identifying  
Landforms  
(Gr. 3-4)  
geomorphology



# K-12 Curriculum Development

## Positive Aspects of Workshop

- Team-designed Curriculum Template
- Grade-level and Discipline Peer Review
- \$\$ for teachers

## Dissemination

- Vermont Educational Services Agencies (ESAs)



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# LCP Curriculum Template

- Designed by Team of Teachers
- 1-page Summary
- Lessons Include Additional Instructions/Handouts

## Photo Detectives Social Studies Grade Levels 1-2

**Objectives:** In order to understand the essential questions of, "How can photographs teach us about the past?" and "How has life in our town changed over time?" students observe local historic photographs and record their findings in pairs and as a class. Students interpret details of photographs and hypothesize about change over time. **Time Needed: 1 hour**

### Vermont's Framework of Standards and Learning Opportunities:

4.6 Understanding Place (students demonstrate knowledge of past and present ...)

6.4 Historical Connections (analyze period of transition in various times in local communities in Vermont, to interpret the influence of the past on the present)

### Grade Level Expectations:

History and Social Studies 1-2:8 History (connect the past with the present)

**Interdisciplinary Connections:** Language Arts

### Materials & Resources:

*Landscape Change Program* Archive, [www.uvm.edu/perkins/landscape](http://www.uvm.edu/perkins/landscape)

Images: LS00055, LS00058, and LS00060 (printed and enlarged)

Books: *Now and Then*, by Faridah Yusof, (National Geographic Windows on Literacy),

*School Then and Now* (Newbridge: Emergent), *Then and Now* (Rigby), *Transportation*

*Over the Years* (Newbridge), *Long Ago* (Newbridge), *Ox-Cart Man*, by Donald Hall,

*If you Lived 100 years Ago*, by Ann McGovern

Photo Observation Recording sheet (below)

Poster/Chart with photos and group recordings

### Activities:

<p><b>1. Hook Your Students</b> Students will become "photograph detectives" and put together clues to solve the mystery of what life was like long ago.</p>	<p><b>4. Culminating Activity</b> Students discuss what each of these historic photos would look like today and together fill in a category on the chart labeled "TODAY..."</p>
<p><b>2. Introduce Concepts</b> Teacher models photo interpretation before pairs of students record their own observations of local historical photos of clothing, transportation, housing/daily life, jobs, and recreation (see recording sheet).</p>	<p><b>5. Assessment</b>  Rubric (attached). Standards are <i>Getting Started</i>, <i>Approaching</i>, <i>Got It</i>, or <i>Wow!</i></p>
<p><b>3. Apply Skills</b> Students regroup and share their observations for each category. On a large display chart, they record observations and record what it tells them about the past.</p>	<p><b>6. Extensions</b> <i>Home:</i> Mystery photo for interpretation with parents. <i>Class:</i> Explore artifacts from long ago; examine influence of inventions on our daily lives; research architectural features of historic buildings and houses, etc.</p>

**Author:** Janet Bellavance, Edmunds Elementary School. **Specialty:** Social Studies/Lang. Arts.



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## Parts of the Template:

Physical Geography example: Identifying Landforms

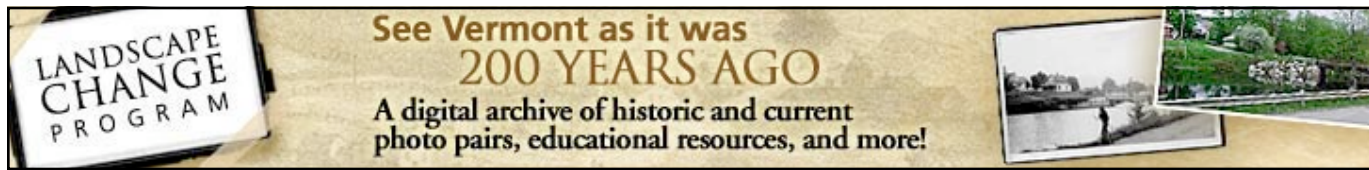
# Identifying Landforms

Physical Geography

Grade Levels 3-4

**Objectives:** In order to understand the **essential question** of, “How can photographs illustrate landforms?” students review definitions of geographic landform terms on-line and apply their knowledge to images of local landforms. Students use computer software to label images and post their work to a virtual bulletin board.

*Time Needed: 1 hour*



## Parts of the Template:

Earth Science example: "GEO-Snapshots"

### **Vermont's Framework of Standards and Learning Opportunities:**

7.15 The Universe, Earth, and the Environment

(students demonstrate understanding of the earth and its environment...)

### **Grade Level Expectations:**

Earth Science 5-6:46 Earth Materials and the Rock Cycle

Earth Science 5-6:47 Forces and Changes at Earth's Surface

(slow and fast changes)

Earth Science 5-6:49 Natural Resources

**Interdisciplinary Connections:** Technology—Multimedia presentation



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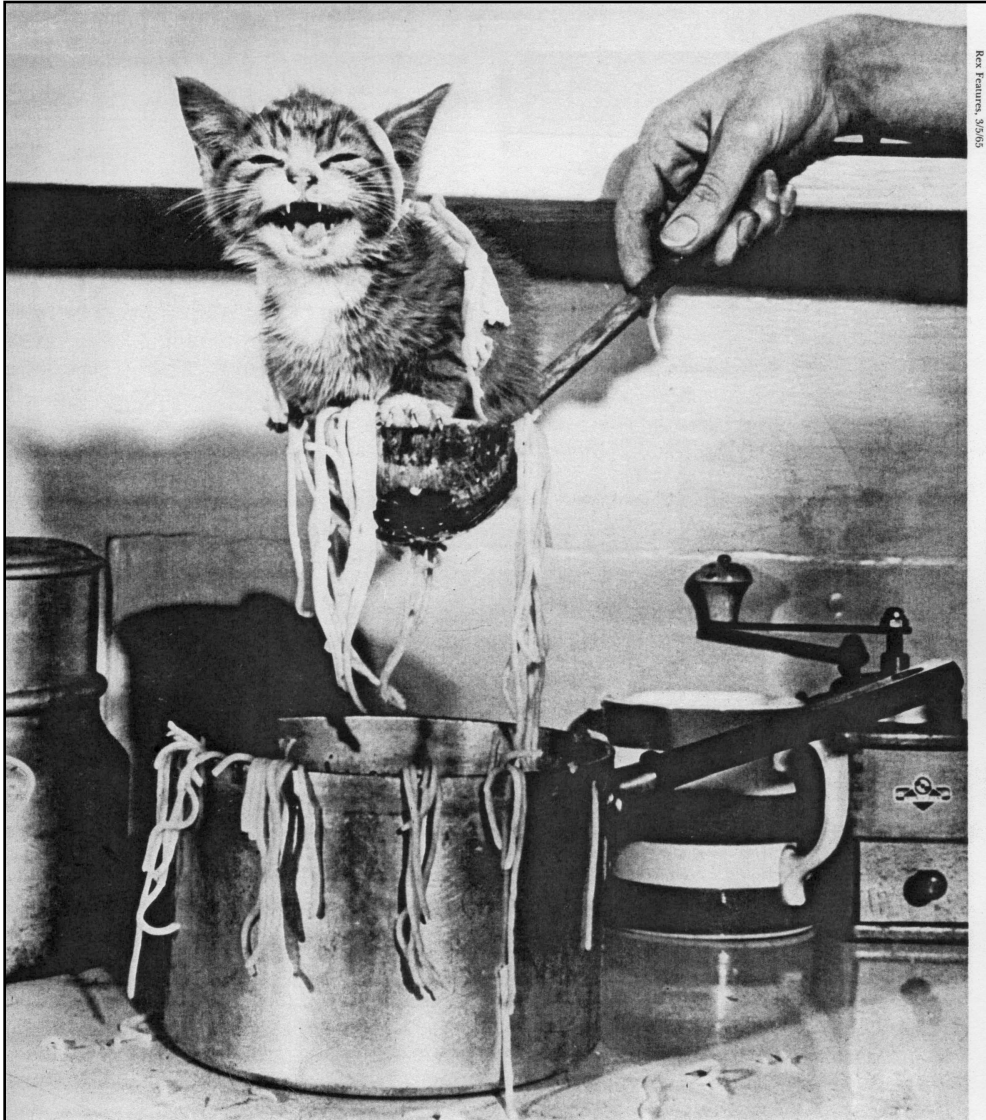
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# Parts of the Template:

## Language Arts example: "Before and After Stories"

<p><b>1. Hook Your Students</b></p> <p>Students view "Cat and Spaghetti" photo and write one sentence about what they think happened before and after. Highlight different responses in group discussion.</p>	<p><b>4. Culminating Activity</b></p> <p>Students display their storyboards for a peer "Museum Walk" and discuss each other's work.</p>
<p><b>2. Introduce Concepts</b></p> <p>A photograph is one parcel of time. The class uses visual clues and prior knowledge to "read" photographs from the <i>Landscape Change Program</i> using a worksheet (below).</p>	<p><b>5. Assessment</b></p> <p>Storyboard (or narrative) evaluated on elements of organization, relevance to photograph, and creativity.</p>
<p><b>3. Apply Skills</b></p> <p>Students independently "read" 1 of 4 photographs, fill out worksheets and discuss with peers. <i>Homework:</i> Use template (below) to sketch a narrative <b>storyboard</b> with "read" photo as one of the frames.</p>	<p><b>6. Extensions</b></p> <p>Create written narratives around photographs, using storyboards as a starting point.</p>



# “Hook”

A photo is one parcel of  
time.

What happened **Before?**

What happened **After?**

“Pasta Problems” by Rex

**Features, 3/5/65** (from “LIFE  
Smiles Back: More than 200 Classic  
Photos from the Famous Back Page  
of America’s Favorite Magazine” by  
Philip B. Kunhardt, Jr., 1988)



# “Reading a Photograph”

What’s the photo **about**?

What are the **people**  
doing? Wearing?

What **season** is it?

**Human-made** things?

Details by **quadrant**?

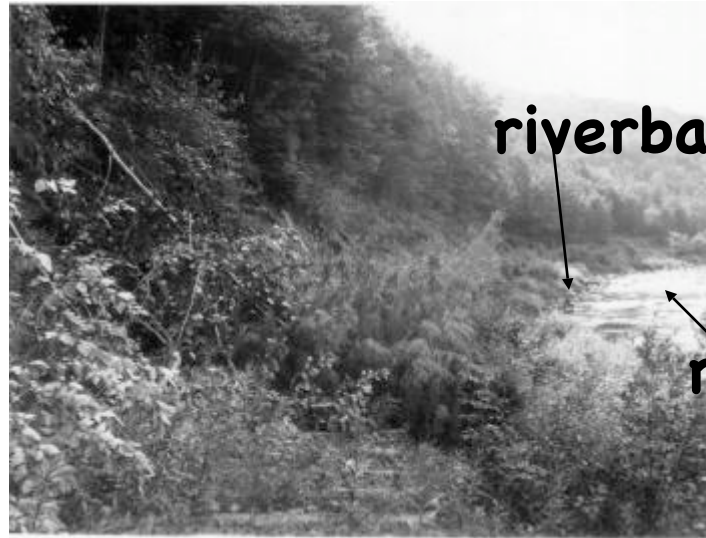
What happened Before?

What happened After?



# Evidence of Tectonics:

## “GEO- Snapshot” of Thrust Fault Breccia



riverbank

river

## Label Landforms

Historic River View,  
1938



Discuss Change

Current River View

LS08672\_000/001, River Through Forest,  
Stockbridge, VT; 1938 and modern



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# Landscape Change Program Support

- NSF support for Educational Materials Development
- NSF support for data clean up
- **NSF support for Teacher, Homeschool, & Native American Training (Summer 06- Summer 08)**
- NSF support for National Dissemination (Summer 08)
- Lintilhac support for image acquisition
- NSF support for web site improvement as service learning



# Learning Landscapes

University of Vermont



Home

About the Program

Areas of Learning

Demo *(coming soon)*

Related Links

Contact

Get Started!

Department of Geology  
University of Vermont  
U.S. (802) 656-4411  
[glcp@uvm.edu](mailto:glcp@uvm.edu)

Earth's surface is beautiful and wondrously complex. Almost every one of us lives on landscapes, working, playing, hiking, climbing and lately, taking snapshots.

Click. Look, a waterfall. Click. There's a flood. Click. Towering mountains.

We'll use 150 years of photographs to examine our planet and understand how it works, learning landscapes from the human perspective. Come in and join us on this virtual trip across Earth's amazing surface.



# UVM Winter Session

## The Changing Face of Vermont Landscapes

**WELCOME!** Ever wondered what the Vermont landscape looked like 50, 100, 150 years ago? Are you interested in how people have shaped the land and how the land has shaped people's lives? Do you want to learn more about geology and its effects on the landscape and citizens of Vermont.

Then join us for a two week trip through the landscapes, history and geology of Vermont as portrayed by the Landscape Change Program, a 7000 image archive of Vermont landscape imagery dating from the early 1800s right up through today. As a Professor of Geology at UVM for the past decade and director of this program, I'll be your guide. You'll use the program archive to discover the past, learn more about Vermont, and create a presentation for the public based on images your find and interpret.



Where are all the trees? What's all this mine waste? Is this really Vermont? Indeed it is. This is copper mining, 1898, in Ely, Vermont. The hills have been cleared, the wood used to roast the copper ore, part of the process that extracts copper metal from the rock in which it is contained.

January  
2006

**Two credit on-line course.**

**Can be taken for graduate credit.**

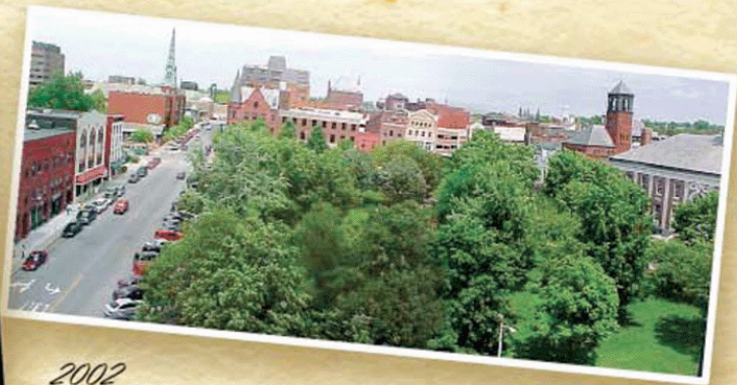
# See your town as it was 100 YEARS AGO!

LANDSCAPE  
CHANGE  
PROGRAM

*Burlington's City Hall Park*



1859



2002

Marvel at the damage wrought by the 1927 flood. Find pictures of long-vanished farms. View the Green Mountain state clearcut for sheep farming. See landslides, ice jams, mines, and quarries. Visit our collection and search thousands of Vermont images by place, by date, by topic!

[www.uvm.edu/perkins/landscape](http://www.uvm.edu/perkins/landscape)