

# Watershed Quest Curriculum Overview

Curriculum Context This short-focused research projeinvestigations.	ect explores local water	sheds through topo	ographic map	analysis and field
Next Generation Science Standard	ds   <u>Next Generation Sc</u>	ience Standards		
Disciplinary Core Ideas ESS2.C The roles of water in Earth's surface processes.	to provide eviden weathering or the ice, wind, or vege 4-ESS2-2. Analyze and inter describe patterns 5-ESS3-1 Obtain and combinate ways individual c	ions and/or measurements lence of the effects of the rate of erosion by water,		Common Core Writing WRITING ANCHOR #7 Conduct short as well as more sustained research projects based on focused questions, demonstrating understanding of the subject under investigation.
	Essen	itial Question		
How does water behave	in our watershed and v	vhy is it important?		
New Knowledge				
<ul><li>A watershed is any area</li><li>No matter where you live</li></ul>				
Texts/Resources				
Background Knowledge Jean-Michel Cousteau, Ocean Adventures www.pbs.org/oceanadventures Lake Champlain Basin Program: Watershed Matters			Sources Topographic maps of your community	
	Vo	ocabulary		
What academic vocabulary is essential for this lesson? What vocabulary is needed for a close-read of the texts?				
Research, inquiry, species, ecosystem, watershed water cycle, topographic map, source, geological features				

# Assessment Evidence Pre-Assessment Summative Performance Task Choices Students create a map of their community and diagram where the water that supports this community comes from and where it goes. 1) Students create a watershed map for their town 2) Students write a narrative describing the water's journey in their town 3) Students create a timeline of the geological, natural, and human history of their watershed site 4) Students list watershed challenges and successes

### **Instructional Process**

### Introduction

Session 1: Watershed Quest Pre-Assessment

What is a watershed and where is our watershed?

Session 2: The Watershed Quest

What is a Watershed Quest?

Session 3: What is a Watershed?

Where does our water come from and where does it go?

### **Short Focused Research**

Session 4: Exploring our Watershed

What does our watershed look like both up close and on the ground?

Session 5: Reflecting on our Watershed

What is the story of our site?

## **Presenting New Knowledge**

Session 6: Mapmaking and Movement Clues

How can we effectively steer visitors along our quest route?

Session 7: Watershed Research and Teaching Clues

Based on what we know about the watershed, what do we want to share and teach through our teaching clues?

Session 8: Watershed Quest Production Session

What do we need to do to finish our quest?

Session 9: Testing and Editing your Watershed Quest

Does the Quest share our site's story?

Session 10: Post-Unit Assessments

Grade: 4 - 8

Contact Information: http://www.vitalcommunities.org/valleyquest