

**Books**

*Flood, Wrestling with the Mississippi*, Lauber, Patricia, ISBN: 079224141X , \$13.97

The special focus on one great flood of one great river in 1993 roots the technology in the particulars of places and people. This book includes geology and engineering. Lauber points out the inevitable conflict: It is the nature of the river to flood and spread out, and it is the nature of people to try to keep it off the land where they live and work.

*1001 Questions Answered About Earthquakes, Avalanches, Floods, and Other Natural Disasters*, Tufty, Barbara, ISBN: 0486236463 \$7.16

**Web Sites**

Seventh Grade Natural Disaster Project includes student report on floods and flash floods. It includes remote sensing information for floods and a ten-year archive of flood maps and information.

<http://www.germantown.k12.il.us/html/floods.html>

U.S. stream-flow data changed daily by USGS

[http://water.usgs.gov/dwc/national\\_map.html](http://water.usgs.gov/dwc/national_map.html)

This site posts all severe weather warnings that are currently in effect throughout the United States. The page includes warnings for flash floods and other types of floods. The site refreshes every minute.

<http://iwin.nws.noaa.gov/iwin/nationalwarnings.html>

This is a great site that allows students to graph and download data from the World's Weather Data Archive. As you work to complete the *Flood!* task, you might want to plot real weather data from Coeur D'Alene, Idaho. This site will give you graphs of daily precipitation and other weather measurements for Coeur D'Alene for any year from January 1949 through November 1953. The year-to-year comparisons that an analysis of these graphs allow will add greatly to your understanding of seasonal flooding and they will provide a nice historical display for the Visitors Center in the National Park you are designing.

Search the Building and Fire Research Laboratory (part of the National Institute of Standards and Technology [NIST]) site for "flood" to see a list of articles on flood damage.

<http://www.bfrl.nist.gov/top/Search.htm>

For other sites, see Event-Based Science Web site

<http://www.eventbasedscience.com>

<b>National Science Content Standards</b>		
<b>Content Area</b>	<b>Standards</b>	
Earth Science	A3, A6, A7, B1	
Science and Technology	A2, B2, B3, B4	
Science in Personal & Social Perspectives	C1, C2, D1, D2, D4, E2, E4, E5	
History and Nature of Science	A1, A2, B3	
<b>Materials</b>		
<b>Activity</b>	<b>Material</b>	<b>Amount</b>
There's No Tour Like a Contour	Plastic model landform	1 per group
	Water	per group
	Transparency	1 per group
	Plastic storage box (clear with a lid)	1 per group
	Beaker	1 per group
	Ruler	1 per group
	Tape	per group
	Transparency marker	1 per group
	Unlined paper	1 per group
	Discover file "Rules for Contour Lines"*	1 per student
Getting the Load Down	Discovery file "Landsat Image of the Missouri River"*	1 per student
	2-liter clear soda bottle half-filled with water	1 per pair
	Construction paper or poster board (1 sheet)	1 per pair
	Markers	per pair
	Glue	per pair
	Ruler	1 per pair
	Grease pencil	1 per pair
	Potter's clay (pencil-eraser-sized pieces)	per pair
Go With the Flow	Sand (fine, light-colored in 8-ounce paper cup)	1 per pair
	Discovery file "Gauging Station Data"*	1 per student
	Graph paper	1 per group
Show Your Best Profile		
	Topographical maps - St. Joe River*	1 per student
	Discovery file "Constructing a Topographic Profile"*	1 per student
	Discovery file "Rules for Contour Lines"*	1 per student
	Strip of paper	1 per group

## Flood!

To return to the lesson, select Exit from the File pull-down menu.

	Graph paper	1 per group
	Pencil	1 per group
Wash Out	Topographic map - St. Joe Baldy Quadrangle*	1 per student
	Stream table	1 per group
	Plastic pails	2 per group
	Rubber tubing	1 per group
	Meter stick	1 per group
	Stopwatch	1 per group
	Sand (wet-enough to fill the stream table)	per group
	Water	per group
	Wooden blocks	2 per group
	Cork or fishing bobber (small)	1 per group
	Protractor	1 per group
A Stream Near You - A Field Trip	Stream or creek	per class
	Clear containers for water samples	per class
	Floatable debris (from banks of stream)	per class
	Graph paper	per class
	Discover file "Stream Section Equations"*	1 per student
	* denotes something is found in the student book	

To return to the lesson, select Exit from the File pull-down menu.