

Books

Denial of Disaster : The Untold Story and Photographs of the San Francisco Earthquake and Fire of 1906, Hansen, Gladys, E. Condon, and D. Fowler, ISBN: 0918684331 \$20.97

With beautiful laser-scanner duotones and 365 previously unpublished photographs, this is a fascinating study of the "great quake" in San Francisco in 1906--and of the likelihood of a similar quake today.

Why the Earth Quakes, Levy, Matthys, ISBN: 0393315274, Norton Co. \$10.40

Part roll call of cataclysms, part building engineering, this short guide is animated by a simple human concern: saving lives. As the best defense is an intelligently built structure, the authors describe (nontechnically) strategies for absorbing shock waves, trends in retrofitting, and the causes of particular failures.

Earthquake 6.8, ISBN 1-884958-00-1 \$6.95

Earthquake 6.8 is a photographic essay of the disastrous consequences of the early-morning earthquake centered in Northridge, California. This book includes photography provided by Associated Press, plus detailed photo captions written in Spanish and English. A most remarkable historical documentation.

Web Sites

USGS general earthquake information, daily seismic activity worldwide, report an earthquake, earthquake database

<http://www.neic.cr.usgs.gov/neis/bulletin/bulletin.html>

Current earthquake data on the west coast of the U.S.

<http://feller.stanford.edu/~blomgren/Earthquake/index.html>

Connections+ provides lesson plans on earthquakes

<http://www.mcrel.org/resources/plus/earthquake.asp>

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

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

Earthquake!

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

National Science Content Standards		
Content Area	Standards	
Earth Science	A1, A2, A3, B1	
Science and Technology	A1, A2, A3, B2, B3, B4, B5	
Science in Personal & Social Perspectives	C1, D2, E2, E4, E5, E7	
History and Nature of Science	A1, A2, B1, B3, C1	
Materials		
Activity	Material	Amount
Where in the World are Earthquakes Found?	World map *	1 per student
	Earthquake list*	1 per student
	Colored pencils	per pair
What is Liquefaction?	Large clear containers	2 per group
	Tubing	1 per group
	Water	per group
	Rocks	2 per group
	Sand	per group
	Gravel	per group
Earthquake-Resistant Building Designs	Mass (500g)	1 per group
	Ring stands	2 per group
	Steel rod	1 per group
	Clamps	1 per group
	Sticks of brittle plastic foam (30- 1" x 1" x 6")	vary by group
	Wooden Sticks (10)	vary by group
	Soda straws	5 per group
	Sheet of paper (8 1/2" x 11")	1 per group
	Sheet of cardboard (8 1/2" x 11")	1 per group
	String (3' in length)	1 per group
	Thumbtacks	20 per group
	Map tacks (longer pin than thumbtacks)	20 per group
	Paper clips (large)	10 per group
	Toothpicks (broken in half)	20 per group
	Scissors	1 per group
Pennies or marbles	vary by group	
Basket or similar container (6" in diameter)	1 per group	
NO TAPE		

Earthquake!

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And the House Came Tumbling Down	Sand (coarse)	per group
	Cardboard box (at least 1' x 1' x 2')	1 per group
	Dowels (large-diameter about 1" x 1')	4 per group
	Model house	1 per group
The Mercalli Intensity Scale	Mercalli Intensity Scale *	1 per student
	Loma Prieta earthquake photographs*	1 per student
	* denotes something is found in the student book	

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