

**Internet Resources for Teachers
from
Center for Earthquake Research and Information**

*There is no guarantee that information contained in this list or to its links is accurate. It was compiled to provide teachers with ideas and ready-to-use lesson plans related to earthquakes and plate tectonics.
To offer suggestions for this list, e-mail mdry@memphis.edu.*

Lesson Plans for Grades K-12

The Active Earth (Grades 3-5)

<http://www.nationalgeographic.com/xpeditions/lessons/07/g35/earth.html>

Aftershocks Continue to Rock India (Grades 9-12)

<http://images.cnn.com/2001/fyi/lesson.plans/01/30/india.quake.2/>

Aftershocks in El Salvador (Grades 9-12)

<http://images.cnn.com/2001/fyi/lesson.plans/01/19/quake.aftermath/index.html>

Big Trouble in Earthquake Country (Grades 9-12)

<http://www.lhs.berkeley.edu/SII/SII-eqcountry/5eqcountry.homepage.html>

Birth of the Earth (Grades 6-8)

<http://school.discovery.com/lessonplans/programs/birthofearth/>

Building a Model to Withstand an Earthquake (Grades 4-8)

http://www.pbs.org/wgbh/nova/teachers/activities/2302_shook.html

Candy Quakes (Grade 8)

<http://www.uen.org/Lessonplan/preview.cgi?LPid=1113>

The Changing Earth (Grades 3-4)

<http://www.askeric.org/cgi-bin/printlessons.cgi/Virtual/Lessons/Science/Geology/GLG0002.html>

Constructing Earthquake-Resistant Buildings (Grades K-12)

http://www.pbs.org/wgbh/nova/teachers/activities/2116_killerqu.html

Constructing Earthquake-Resistant Buildings (Grades 6-8)

<http://school.discovery.com/lessonplans/programs/earthquakeproof/>

Continental Drift (Grades 6-8)

<http://school.discovery.com/lessonplans/programs/continentaldrift/index.html>

Core of the Earth (Grade 8)

<http://www.askeric.org/cgi-bin/printlessons.cgi/Virtual/Lessons/Science/Geology/GLG0006.html>

Core Sampling with Cupcakes (Grades 5-8)

<http://nesen.unl.edu/lessons/geology/coresamples.html>

Creating a Seafloor Diagram (Grades K-12)

<http://pao.cnmc.navy.mil/educate/neptune/lesson/art/seafloor.htm>

Cupcake Core Sampling (Grades K-12)

<http://www.coaleducation.org/lessons/lesson.htm>

Designing Structures to Perform Well During an Earthquake (Grades K-12)

<http://mceer.buffalo.edu/education/exercises/struct.asp>

Designing Structures to Withstand Earthquakes (Grades 2-10)

<http://www.nsf.gov/od/lpa/nstw/teach/nstw1996/shake/start.htm>

Does the Earth Have the Shakes?

<http://geosun.sjsu.edu/alert/products/plateacts1.pdf>

Dynamic Earth (Grades K-5)

<http://school.discovery.com/lessonplans/programs/dynamicearth/>

The Dynamic Earth (Grades 3-8)

http://www.wnet.org/wnetschool/origlessons/dynamic_earth/index.html

The Earth Bowl (Grades K-3)

<http://sln.fi.edu/tfi/activity/earth/earth-1.html>

(Layers of the earth in a see-through bowl.)

Earth Changes (Grades 4-6)

<http://www.askeric.org/cgi-bin/printlessons.cgi/Virtual/Lessons/Science/Geology/GLG0008.html>

Earthquake Activities (Grades K-8)

<http://quake.ualr.edu/schools/elem.htm>

Earthquake Activities (Grades 7-12)

<http://tremor.nmt.edu/activities.htm>

Earthquake Activities (Grades K-12)

<http://web.ics.purdue.edu/~hborcher/EAS%20102%20APT/earthquake.html>

Earthquake Country Unit (Grades 4-7)

<http://www.mountainlake.org/ed/local/quake.htm>

Earthquake Depth (Grades 9-12)

<http://btc.montana.edu/nten/trc/default.shtml>

Earthquake Epicenters and Magnitudes (Grades 4-12)

<http://btc.montana.edu/nten/trc/default.shtml>

Earthquake Experiments from FEMA (Grades K-8)

<http://www.fema.gov/kids/jessnsam/>

Earthquake Internet Scavenger Hunt

http://www.brookscole.com/earthscience_d/special_features/scavenger.html

Earthquake Lesson Plans (Grades K-12)

http://visearth.ucsd.edu/VisE_teach/

Earthquakes! (Grades 6-8)

<http://cse.ssl.berkeley.edu/lessons/indiv/davis/hs/QuakesEng3.html>

Earthquakes (Grade 5)

<http://www.uen.org/Lessonplan/preview.cgi?LPid=2696>

Earthquakes and the Behavior of Earth Materials (Grades K-3)

http://www.owu.edu/~maggrote/pp/geology/c_earthquakes.html

Earthquakes: Causes and Effects (Grade 4)

<http://www.learnnc.org/LearnNC/lessonp.nsf/docunid/136E3FC93ACCDDA98525>

Earthquakes, Faults and Moving Plates Using Food and Candy (Grades 4-8)

<http://www.rit.edu/%7Ecomets/pages/lessonplans/earthquakes.html>

Earthquakes: Get Ready for the Big One (Grades 6-8)

<http://www.summerproductions.com/earthworks/quakes/resources.html>

Earthquakes: Getting Ready for the Big One (Grades 6-8)

<http://school.discovery.com/lessonplans/programs/earthquakes-gettingready/>

Earthquakes: Learn from the Past, Prepare for the Future (Grades 9-12)

<http://school.discovery.com/lessonplans/programs/earthquakes/>

Earthquake Slip: A Classroom Exercise (Grades 7-9, but can be adapted)

http://ijlahr.com/science/earth_science/tabletop/earthshaking/index.html

Earthquakes, Plate Tectonics and Volcanoes (Grades 7-12)

<http://www.glencoe.com/sec/science/search/searchVoyages.php4>

Earthquakes Theme Page (links to lessons)

<http://www.cln.org/themes/earthquakes.html#top>

Earthquakes and Volcanoes (Grades 3-5)

<http://www.nationalgeographic.com/xpeditions/lessons/15/g35/earthquakes.html>

Earthquakes and Volcanoes (Grade 6)

<http://www.sasked.gov.sk.ca/docs/midlsci/gr6ubmsc.html>

Earthquakes and Volcanoes (Grades 6-12)

<http://etc.sccoe.org/i2000/Equakes1.html>

Earthquakes WebQuest (Grades 5-8)

<http://www.askeric.org/cgi-bin/printlessons.cgi/Virtual/Lessons/Science/Geology/GLG0035.html>

Earthquakes: "What About Me?" (Grade 3)

<http://www.uen.org/cgi-bin/websql/lessons/14.hts?id104>

Earthquake Waves and Their Destructions: 7 Activities (Grades 7-12)

<http://www.iit.edu/~smile/ph9309.html>

Earth Science Lessons: Plate Tectonics, Earthquakes, Volcanoes, Prehistoric Earth (Grades 5-8)

<http://volcano.und.nodak.edu/vwdocs/vwlessons/lessons/lesson.html>

Earth Science Activities from a USGS Scientist

http://www.jjlahr.com/science/earth_science/

Earth Science (Grades K-12)

http://www.glencoe.com/sec/science/lep_science/earth_science/index.html

Earth Science (Grade 10)

<http://www.bced.gov.bc.ca/irp/science810/10earspl.htm>

Earth Science and Geology Lesson Plans (Grades 11-12)

<http://www.bced.gov.bc.ca/irp/esg/esgtoc.htm>

Earth's Dramatic History (Grades 6-8)

<http://school.discovery.com/lessonplans/programs/earthspast/>

Earth's Interior and Plate Tectonics Theory (Grades 5-6)

http://www.askeric.org/cgi-bin/printlessons.cgi/Virtual/Lessons/Science/Earth_Science/EAR0203.html

Edible Four-Layer Earth (Grades K-8)

<http://www.sd5.k12.mt.us/glaciareft/geoeatk8.htm>

Edible Rock Layers (includes faulting) (Grades 5-8)

<http://www.coaleducation.org/lessons/lesson.htm>

Finding an Earthquake's Epicenter (Grades 9-12)

http://www.educationworld.com/a_tsl/archives/02-1/lesson001.shtml

Geologic Time (Grades 5-8)

<http://www.geol.vt.edu/vesr/gtu.html>

Geologic Time (Grades 7-12)

http://nesen.unl.edu/lessons/geology/journey_2.htm

Geological Time and the Evolution of the Earth (K-3)

http://www.owu.edu/~maggrote/pp/geology/c_geological.html

Geologic Time: Relative and Absolute Dating (Grades 9-12)

<http://btc.montana.edu/nten/trc/default.shtml>

Geological Timeline (Grades 3-8)

<http://www.coaleducation.org/lessons/primary/geol/geotim.htm>

Great Continental Drift Mystery

<http://www.yale.edu/ynhti/curriculum/units/1991/6/91.06.05.x.html>

The Great San Francisco Earthquake of 1906 (Grades 5 and up)

http://www.teacherhelp.com/your_classroom/lesson_plans/lessonpln2.html

The Impact of Natural Hazards Around the World (Grades 6-8)

<http://www.nationalgeographic.com/xpeditions/lessons/15/g68/hazards.html>

Interactive Online Earthquake Lesson Plan (Grades 9-12)

http://www.wnet.org/edonline/concept2class/month2/lp_hs_intro.html

Kobe, Japan Earthquake Report (Grades 5-9)

<http://inspire.ospi.wednet.edu:8001/curric/land/kobett.html>

Layer Cake Core Drilling (K-12)

<http://www.coaleducation.org/lessons/lesson.htm>

Layers of the Earth (Grades 2-3)

<http://www.coaleducation.org/lessons/sme/elem/2.htm>

Layers of the Earth (Grades 2-3)

<http://www.askeric.org/cgi-bin/printlessons.cgi/Virtual/Lessons/Science/Geology/GLG0051.html>

Layers of the Earth (Grades 2-6)

<http://www.askeric.org/cgi-bin/printlessons.cgi/Virtual/Lessons/Science/Geology/GLG0011.html>

Learn from the Past, Prepare for the Future

http://www.teachers.yourhomework.com/hanchon/intro_earthqk_discoverychannel_plan.htm

The Living Earth (Grades 3-5) Glaciers and other natural forces that shape the Earth.

<http://school.discovery.com/lessonplans/programs/livingearth/>

Making a Shake Table (Grades 7-12)

<http://mceer.buffalo.edu/education/exercises/shtable.asp>

Mapping Earthquakes, Earthquake Depth and Earthquake Magnitude (Grades 7-12)

<http://atlas.geo.cornell.edu/education/instructor/earthquakes/index.html>

Mid-America Earthquake Center Education Program: Lessons and Activities (Grades K-12)

<http://mae.ce.uiuc.edu/Education/Teachers/resource.htm>

A Model of Sea-Floor Spreading (Grades 7-12)

<http://www.ucmp.berkeley.edu/fosrec/Metzger3.html>

A Model of Three Faults (Grades 7-12)

<http://interactive2.usgs.gov/learningweb/teachers/faults.htm>

Moving the Earth (Grade 5)

<http://www.uen.org/Lessonplan/preview?LPid=2192>

Musical Plates (Grades 4-12)

<http://k12science.ati.stevens-tech.edu/curriculum/musicalplates2/index.shtml>

Natural Frequency of Buildings (Grades 7-12)

<http://www.geo.arizona.edu/K-12/teachers/chriskaus/FREQTEXT.HTML>

Online Earthquake Lesson (Grades 4-8)

http://www.uen.org/utahlink/activities/view_activity.cgi?activity_id=6985

Pangea “All Lands” (Grades 4-6)

<http://www.sd5.k12.mt.us/glaciereft/pangea.htm>

Peanut Butter and Jelly Sandwich Faults (Grades 3-5)

<http://web.ics.purdue.edu/~wines/60minutelesson.html>

Plate Tectonics: 10 Activities

<http://www.iit.edu/~smile/ph9312.html>

Plate Tectonics and Earthquakes (Grade 6)

http://www.empirenet.com/kevinl/teacher/earthquake_lesson_links.htm

Plate Tectonics and Snickers (Grades 5-8)

<http://sciencespot.net/Pages/classearth.html#Anchor3>

Plate Tectonics and the Surface of the Earth (Grades K-3)

http://www.owu.edu/~mggrote/pp/geology/c_plate.html

Plate Tectonics Units Covering Earthquakes, Volcanoes and Hazards (Grades K-6)

<http://www.msnuclous.org/membership/html/k-6/pt/index.html>

Plate Tectonics with an Orange (Grades K-12)

<http://www.coaleducation.org/lessons/lesson.htm>

Plate Tectonics Unit (Grade 6)

<http://etc.sccoe.org/i2000/tecton.htm>

Plate Tectonics Using Clay (Grades 5-9)

http://leapnyc.org/lessonplans/sampleplan/Sample1_/sample1_.html

Prepare Yourself for Natural Hazards (Grades K-2)

<http://www.nationalgeographic.com/xpeditions/lessons/07/gk2/prepare.html>

The Relationship Between Earthquakes and Plate Boundaries (Grades 4-9)

<http://btc.montana.edu/nten/trc/default.shtml>

Researching Geologic Time in Pairs (Grades 7-12)

http://nesen.unl.edu/lessons/geology/journey_2.htm

Rock and Roll: Earthquake-Resistant Homes (Grades 5-8)

<http://sciencespot.net/Pages/classearth.html#Anchor-49575>

Seismology Lessons from Prof. Larry Braile (Grades 5-12)

<http://www.eas.purdue.edu/~braile/>

Seismology Lessons from Indiana University (Grades 7-12)

<http://www.indiana.edu/~pepp/>

Shake, Rattle and Erupt: A Unit on Plate Tectonics, Earthquakes and Volcanoes (Grades 5-8)

http://hyper.vcsun.org/HyperNews/nherr/get/csp_lesson_plans_2001/4.html

Shake, Rattle, and Liquefy (Grades 6-10)

<http://www.wa.gov/dnr/htdocs/ger/earthcon.htm>

Shake, Rattle and Roll (Grades 5-8)

<http://www.covis.nwu.edu/geosciences/activities/shake/>

Soil and Earthquakes (Grades 4-12)

<http://mceer.buffalo.edu/education/exercises/soil.asp>

Stress and Strain in the Earth's Crust (Grades 5-8)

<http://www.iit.edu/~smile/ph9003.html>

Structural Geology Laboratory (K-12)

<http://www.coaleducation.org/lessons/lesson.htm>

Structure of the Earth (Grade 3)

<http://www.sasked.gov.sk.ca/docs/elemsci/gr3ubesc.html>

Table-top Earthquakes (Grades 9-12)

<http://pubs.usgs.gov/of/1998/ofr-98-0767/>

Tasty Quakes Using Gelatin (Grades K-6)

<http://www.fema.gov/kids/tastyeq.htm>

The Three Little Pigs in Earthquake Land (Grades K-2)

<http://www.nationalgeographic.com/xpeditions/lessons/15/gk2/threepigs.html>

Tracking Earthquakes Around the World (Grades 6-12)

<http://school.discovery.com/lessonplans/activities/trackingearthquakes/>

Trembling, Spewing Earth: Earthquake Impacts on Human Activity (Grade 7)

<http://www2.una.edu/geography/statedepted/lessons/trembling/trembling.html>

Understanding the Global Effect of a Major Earthquake (Grades 5-12)

<http://scied.gsu.edu/Hassard/mos/con9.html>

Understanding the Geologic Time Scale (Grades 7-12)

<http://www.tmm.utexas.edu/education/lessonplans/time/index.html>

Using the Internet to Learn about Earthquakes (Grades 4-9)

<http://webback.educ.umt.edu/cpgrant/ILPS/HuiQuake.htm>

Virtual Earthquake Lab (Grade 8)

<http://www.westga.edu/~anazzal/MGED4530/WebPages/ChrisyMcCormick/virtualearthquakelab.htm>

Visual Model of the Planet Earth (Grades 3-9)

http://www.askeric.org/cgi-bin/printlessons.cgi/Virtual/Lessons/Science/Earth_Science/EAR0023.html

Writing the Geologic History of Your County (Grades 7-12)

<http://nesen.unl.edu/lessons/geology/geohistory.html>

Additional Sites Containing Earthquake and Earth Science Lesson Plans:

Big Chalk

http://www.bigchalk.com/cgi-bin/WebObjects/WOPortal.woa/Homework/Middle_School/Resource/Science/Earth_Science/Geology_22440.html

Earth Science Lesson Plans from UC-Berkeley with National Science Standards Matrix

<http://www.ucmp.berkeley.edu/fosrec/Matrix.html>

Geological Society of America

<http://www.geosociety.org/educate/>

Lesson Plans

<http://www.teach-nology.com/>

Science Lesson Plans from Frey Scientific for Grades 5-12

<http://www.freyscientific.com/lessons/index.jsp>

Earth Science Lesson Plans from the Web

<http://www.edhelper.com/cat251.htm>

University of Arkansas at Little Rock: Arkansas Center for Earthquake Education and Technology Transfer (ACEETT)

<http://quake.ualr.edu/schools/>

Additional Teacher Resources

A Listing of Earth Science Books

http://www.geometry.net/basic_e bk/earth_science_activities.html

Earthquakes for Teachers

<http://earthquake.usgs.gov/4teachers/>

Free (or nearly) Teacher Training from the Federal Emergency Management Agency (includes a one-week workshop on geology and seismology)

<http://www.fema.gov/kids/fematce.htm>

Geologic Time Scale (A great site for so many topics.)

<http://www.EnchantedLearning.com/subjects/Geologictime.html>

Multiple Intelligence Approach to Teaching Rocks and Minerals

<http://www.chariho.k12.ri.us/curriculum/MISmart/ocean/MIRocks.htm>

University of California-Berkeley Seismological Laboratory (Teaching Resources)

<http://www.seismo.berkeley.edu/seismo/faq/teaching.html>

General Earthquake Information

American Red Cross: Earthquakes

<http://www.redcross.org/services/disaster/keepsafe/readyearth.html>

Associated Bay Area Governments
<http://www.abag.ca.gov/bayarea/eqmaps/kids.html>

Center for Earthquake Research and Information
<http://www.ceri.memphis.edu/>

Earthquakes for Kids from the USGS
<http://earthquake.usgs.gov/4kids/>

Earthquakes: A publication from the USGS
<http://pubs.usgs.gov/gip/earthq1/>

Earth Science Explorer
<http://www.cotf.edu/ete/modules/msese/explorer.html>

Educational Materials from the United States Geological Survey
<http://mac.usgs.gov/mac/isb/pubs/forms/educmat.html>

FEMA (Federal Emergency Management Agency)
<http://www.fema.gov/hazards/earthquakes/eqklinks.shtm>
<http://www.fema.gov/hazards/earthquakes/>
<http://www.fema.gov/kids/>

General Earthquake Information
<http://mae.ce.uiuc.edu/Education/Teachers/general.htm>

Global Earthquake Response Center
<http://www.earthquake.org/teachers.html>

IRIS Consortium (Incorporated Research Institutions for Seismology): Education and Outreach
<http://www.iris.washington.edu/about/ENO/>

National Earthquake Information Center
<http://neic.usgs.gov/>

Saint Louis University Earthquake Center
http://www.eas.slu.edu/Earthquake_Center/

Seismology Resources for Teachers from the American Seismological Society of America
<http://www.eas.purdue.edu/~braile/edumod/seisres/seisresweb.htm>

Seismology Science Fair Ideas
<http://quake.wr.usgs.gov/info/scifair/>
<http://earthquake.usgs.gov/4kids/sciencefair.html>

Seismosurfing
<http://www.geophys.washington.edu/seismosurfing.html>

Soil Liquefaction Web Site (includes a video)
<http://www.ce.washington.edu/~liquefaction/html/main.html>

This Dynamic Earth: The Story of Plate Tectonics
<http://pubs.usgs.gov/publications/text/dynamic.html>

Understanding Earthquakes

<http://www.crustal.ucsb.edu/ics/understanding/>

United States Geological Survey Earthquake Hazards Program

<http://earthquake.usgs.gov/>

United States Geological Survey Learning Web

<http://www.usgs.gov/education/>

New Madrid Links

New Madrid Links from the National Earthquake Information Center

http://wwwneic.cr.usgs.gov/neis/new_madrid/new_madrid.html

Rocking Hounding in Arkansas: The New Madrid Fault

<http://rockhoundingar.com/geology/fault.html>

The Virtual Times: The Great New Madrid Earthquake (not scientific but interesting)

<http://hsv.com/genlintr/newmadrd/>

Books about Earthquakes with Activities

Discovering Earthquakes: Mysteries, Secret Codes, Games, Mazes by Nancy Field, Adele Schepige (Contributor), Nancy Lynch (Illustrator)

Earthquake Games: Earthquakes and Volcanoes Explained by Games and Experiments by Matthys Levy, Christina Blatt (Illustrator), Mario George Salvadori

Janice VanCleave's Earthquakes: Mind-boggling Experiments You Can Turn Into Science Fair Projects by Janice VanCleave (Author)