

ADDITIONAL RESOURCES IN **EARTH SCIENCES**

State of Tennessee:

Tennessee Blue Book---state symbols, history, government. Published every two years. Free!

Tennessee Division of Geology

<http://www.tn.gov/envirnoment/section/geology/>

Must have:

Bulletin 74 The Geologic History of TN

Robert Miller \$5.00

Bulletin 86 Tennessee Topography

David D. Starnes \$19.95

Suggested:

A Geologic Trip across Tennessee by

**Interstate 40 Harry L. Moore. Univ. of
Tennessee Press. ISBN 0-87-49-832-0**

Area specific:

Bulletin 53 Geology of Nashville, TN

C. W. Wilson \$7.50

Bulletin 70 Geology of Knox County, TN

\$8.50

Bulletin 79 Geology of Hamilton County, TN

\$13.00

Dr. Leimer's homepage:

<http://sites.tnitech.edu/hwleimer/>

Possible field trips:

Gray Fossil site (east TN near Johnson City)

<http://www.etsu.edu/naturalhistorymuseum/>

Coon Creek site (west TN near Jackson)

<http://www.memphismuseums.org/>

[coon_creek-overview](#)

State Capitol building and Bicentennial Mall

American Geosciences Institute (AGI):
<http://www.americangeosciences.org/>

Earth Week Toolkits (yearly)

AGI Environmental Awareness Series

Water and the Environment

Coal and the Environment

Petroleum and the Environment

Aggregate and the Environment

Soils, Society, and the Environment

Metal Mining and the Environment

Living with Karst

Sustaining our Soils and Society

Meeting Challenges with Geologic Maps

Minerals-Foundations of Society

Minerals Education Coalition (MEC):

<http://www.mineralseducationcoalition.org/>

The Blue Marble Vinyl Periodic Chart

Rock Odyssey video

Teacher Helper Packets

Minerals in Your World

It's just a Rock. What's it Worth?

Broccoli

Light Bulb

Pencil

Soccer ball

Earthquake resources:

Books

A Crack in the Edge of the World: America and the great California earthquake of 1906. Simon Winchester. 2005. Harper-Collins Publishers, New York. ISBN-10: 0-06-057199-3.

A Most Dreadful Earthquake. A First-Hand Account of the 1906 San Francisco Earthquake and Fire with Glimpses into the Lives of the Phillips-Jones Letter Writers. Dorothy Fowler. 2006. California Genealogical Society, Oakland, California. ISBN-13: 978-0-9672409-7-8.

The Last Day. Wrath, Ruin, and Reason in the Great Lisbon Earthquake of 1755. Nicholas Shrady. 2008. Viking. Penguin Group, New York. ISBN 978-0-670-01851-2.

Internet

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

USGS Earthquake Hazard Program
<http://earthquake.usgs.gov>

Others:

National Park Service

<http://www.nps.gov/index.htm>

For example:

Hawaii Volcanoes (volcanoes)

<http://www.nps.gov/havo/index.htm>

Photos and Multimedia

Webcams

Glacier Bay (glaciers)

<http://www.nps.gov/glba/index.htm>

Photos and Multimedia

Yellowstone (geysers)

<http://www.nps.gov/features/yell/webcam.OldFaithfulFullStreaming.html>

Photos and Multimedia

Webcams

Caterpillar

<http://www.cat.com/groundrules>

Free CD/DVD on mining

National Energy Foundation

<http://www.nefl.org>

Rock music

NASA-Huntsville, Alabama

<http://visitnasa.com/us-space-rocket-center-alabama>

Ames Research Center

Kepler-A Search for Habitable Planets

<http://kepler.nasa.gov>

NASA-The Space Place

<http://spaceplace.nasa.gov>

Interactive Periodic Chart

<http://www.chemeddl.org/collections/ptl/>

Mineralogical Society of America

<http://www.minsocam.org/>

Geological Society of America

<http://www.geosociety.org/index.htm>

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

US Geological Survey

<http://minerals.usgs.gov/minerals/index.html>

US Department of Energy

<http://www.fossil.energy.gov>

Powering Education-A Toolkit for Teachers

(both Elementary and Middle School teachers)

US Geological Survey Water Cycle

<http://water.usgs.gov/edu/watercycle.html>

US Geological Survey Topographic Map Symbols

<http://pubs.usgs.gov/gip/TopographicMapSymbols/topomapsymbols.pdf>

Ancient Earth Globe

<http://dinosaurpictures.org/ancient-earth#240>

Antipodes map

<https://www.antipodesmap.com/>

Books:

A Crack in the Edge of the World: America and the great California earthquake of 1906. Simon Winchester. 2005. Harper-Collins Publishers, New York. ISBN-10: 0-06-057199-3.

The Map that Changed the World. William Smith and the Birth of Modern Geology. Simon Winchester. 2001. Harper-Collins Publishers, New York. ISBN 0-06-019361-1.

Krakatoa. The Day the World Exploded August 27, 1883. Simon Winchester. 2003. Harper-Collins Publishers, New York. ISBN 0-06-621285-5.

The Heartless Stone-a Journey through the World of Diamonds, Deceit, and Desire. Tom Zoellner. 2006. St. Martin's Press, New York. ISBN-13:978-0-312-33969-2.

Uranium. War, Energy, and the Rock that Shaped the World. Tom Zoellner. 2009. Penguin Books. ISBN-13: 978-0-670-02064-5.

Dig It. B. K. Hixson. 2003. Loose in the Lab, Inc. Sandy, Utah. ISBN 0-931-801-02-9.

Project Earth Science: Geology. Brent A. Ford. 2001. National Science Teachers Association Press, Arlington, Virginia. ISBN 0-87355-131-1.

The Last Billion Years: a Geologic History of Tennessee. Don W. Byerly. 2013. University of Tennessee Press, Knoxville, TN. ISBN 987-1-57233-974-3 (pbk.)

The Geologic History of Nashville and the Surrounding Middle Tennessee Region by Robert A. Miller. 2016. South Harpeth Publishing, 709 Templeton Drive, Nashville, TN 37205-1211.

YouTube:

Not on the Test 2 minutes 14 seconds

Das Rad 8 minutes 26 seconds

I Choose c 3 minutes 21 seconds

**Brad Paisley-Geology, Prairie Home Companion
4 minutes 2 seconds**

A Day in Pompeii 8 minutes 40 seconds

iPad Apps:

Amazing Alex

Geared 2

GearedHD

NASA HD

National Geographic World Atlas

Space Place Prime

Earth as Art

Specifically for those in the field of **Education:**

National Science Teachers Association (NSTA)

<http://www.nsta.org/>

Tennessee Science Teachers Association (TSTA)

<http://www.tsta.wildapricot.org>

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government. Published every two years. Free!**

Tennessee Department of Education

<https://www.tn.gov/education.html>

Tennessee Science Standards--2018

https://www.tn.gov/content/dam/tn/stateboardofeducation/documents/meeting_oct_20_17/10-20-17_III_J_Non-Substantive_Changes_to_Math_ELA_Science_Standards_Attachment_3_-_Science.pdf

**Tennessee Sciences Standards—Implementation
Guide, Part 1**

https://www.tn.gov/content/dam/tn/education/standards/sci/std_sci_implementation_guide.pdf

2018 Science Training Digital Resources

<https://docs.google.com/document/d/12p2wtd9jxOk7bTk6tSm4evLM4A4AERq6zwJ25tm2qGg/edit?ts=5b1ec86e>

**TN Science Standards Reference—Suggestions for
Implementing Three-dimensional Science
Instruction. January 2018**

https://www.tn.gov/content/dam/tn/education/standards/sci/sci_standards_reference.pdf