

Case Details

Case Title:

Shifting plates and crazy headaches

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Grade Level(s):

Middle School

Subject(s):

Earth Science

Summary:

A disturbing tremble shakes metro-Atlanta as the school day begins. When a series of unfortunate events occur during the disaster, the students are left without adult guidance and must apply all they know to prevail in what they assume is an earthquake.

Suggested Citation:

Parker, S., & Harris, W. (2008). *Shifting plates and crazy headaches*. Retrieved June 03, 2012 from Emory University, CASES Online Web site:
http://www.cse.emory.edu/cases/casedisplay.cfm?case_id=963

Learning Objectives:

1. Recognize that constructive and destructive Earth forces change the Earth's surface.
2. Explain how earthquakes cause damage and the kinds of damage they cause.
3. Explain what can be done to reduce earthquake hazards to buildings and to people.
4. Explain how movement along faults changes the Earth's surface.
5. Explain how the energy of an earthquake travels through Earth.
6. Identify the different kinds of seismic activity.
7. Name the scales used to measure the strength of an earthquake.

National/State Standards:

SCSh1. Students will explore the importance of curiosity, honesty, openness, and skepticism in science and exhibit these traits in their own efforts to understand how the world works. (NSES Content Standard A)

- a. Understand the importance of - and keep - honest, clear, and accurate records in science.
- b. Understand that hypotheses can be valuable even if they turn out not to be completely accurate.

S6E5. Students will investigate the scientific view of how the earth's surface is formed. (NSES Content Standard D). Describe methods for conserving natural resources such as water, soil, and air.

S6E6. Students will describe various sources of energy and with their uses and conservation. (NSES Content Standard D and F). Identify renewable and nonrenewable resources.