

Case Details

Case Title:

Shake, rattle, and roll

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Grade Level(s):

Middle School

Subject(s):

Earth Science

Summary:

In the near future, a major earthquake may occur in the Atlanta area. The United States Geological Survey has commissioned a Geological Research Team to research the causes of earthquakes. In addition, this research team will help in designing an earthquake proof school and an evacuation plan.

Suggested Citation:

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http://www.cse.emory.edu/cases/casedisplay.cfm?case_id=683

Learning Objectives:

1. Define earthquakes
2. Research causes of earthquakes
3. Compare and contrast the Mercalli scale and the Richter scale
4. Identify proper safety procedures for earthquakes
5. Describe the ways geologists monitor earthquake risk
6. Identify types of materials and procedures for earthquake proofing.

National/State Standards:

Georgia Performance Standards

S6CS6. Students will communicate scientific ideas and activities clearly.

S6E5. Students will investigate the scientific view of how the earth's surface is formed. d. Recognize that lithospheric plates constantly move and cause major geological events on the earth's surface. e. Explain the effects of physical processes on geological features including oceans.