

Earthquake Location Lab Answers

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Earthquake Location Lab Answers

At least 3 earthquake recording stations are required to find the location of the earthquake epicenter. A single recording station can only calculate distance, but not direction; to cover all possibilities, a complete circle is drawn around that station. If only two earthquake recording stations are used, the circles will overlap at two points.

Lab 10 - Earthquake Epicenter Location

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12 EARTHQUAKE LOCATION LAB ANSWER KEY PDF

Earthquakes Living Lab: Finding Epicenters and Measuring Magnitudes Activity—Worksheet Example Answers 3 Explain: 7. How is an earthquake located? We locate earthquakes by looking at seismogram recordings of seismic waves, P waves and S waves, because they travel at different speeds and thus arrive at seismic stations at different times. P waves

Example Answers - TeachEngineering

While seismologists use many stations, in this lab you will use seismograms from three distant stations to locate the epicenter, the point on the Earth's surface directly above the focus. Objective: You will learn to interpret a seismogram and, using differences in seismic waves, locate the epicenter of an earthquake. Procedure A:

Finding Epicenters Lab - ws.k12.ny.us

Earthquake Lab The goal of this portion of the lab is to learn how recording of earthquakes — seismograms — are used to locate earthquakes, determine their magnitudes, and to understand the sense of fault motion ... answer — if they do not, you should go back and check your work.

Name: Earthquake Lab Lab Section

Pre-lab Questions - Complete these questions before coming to lab. Briefly define the following key words. 1. Earthquake Break or rupture of rock, emanating from a focus, sending seismic waves through Earth materials 2. Primary Wave Compressional wave from earthquake, moving fastest, and through all types of Earth materials.

EARTHQUAKES: Epicenter Determination, Seismic Waves, and ...

Lab Period: ____ Locating the Epicenter of an Earthquake Introduction: The epicenter is the point on Earth's surface directly above an earthquake. Seismic stations detect earthquakes by the tracings made on seismographs. Tracings made at three separate seismic stations are needed to locate an earthquake epicenter.

Locating the Epicenter of an Earthquake - ntschools.org

Earthquakes occur when stress between two plates is released. The release of stress occurs when

the strength of the rocks is surpassed. Energy from the stress release begins at the point of breakage on the fault surface below the ground called the focus. The geographic location directly above the focus is called the epicenter.

Lab 5 - Earthquakes - Answers (1) - Lab 5 Earthquakes ...

Conclusion: If you are unsuccessful at locating the epicenter, describe how you modified your work to come to the correct answers. Record the information in your lab report. In the first try, I wasn't able to get the correct answers. I had to use my math skill and calculate the

Lab Report Format for Earthquake Epicenter Lab by on Prezi

Locating the Epicenter of an Earthquake Introduction: The epicenter is the point on Earth's surface directly above an earthquake. Seismic stations detect earthquakes by the tracings made on seismographs. Tracings made at three separate seismic stations are needed to locate an earthquake epicenter.

Name: Date: Lab Period: Locating the Epicenter of an ...

1. Are earthquakes predictable? Explain your answer. 2. What is the minimum number of seismic stations necessary to locate an epicenter? 3. How can you determine the epicenter of an earthquake using data from seismic stations worldwide? 4. What happens to the time differences between P- and S-waves as your distance from the epicenter increases? 5.

LAB Locating Epicenters - NYS Earth Science

glencoe.com

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Geology 101 LAB: Earthquakes. For this assignment, you will need some colored pencils -- red, green, blue and yellow or orange. Outcomes. When you are done with this lab, you should know and be able to perform: How to locate earthquake epicenters. How to measure earthquake Richter magnitudes.

Geology 101 Lab: Earthquakes - Wenatchee Valley College

Students learn how engineers characterize earthquakes through seismic data. Then, acting as engineers, they use real-world seismograph data and a tutorial/simulation accessed through the Earthquakes Living Lab to locate earthquake epicenters via triangulation and determine earthquake magnitudes.

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