

Earthquake Epicenter Lab Activity Answers

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Locating Earthquake Epicenter Lab Answer Key Locating ...

To locate the epicenter of the earthquake, a minimum of 3 circles from three different seismic stations must be drawn on the map. The intersection of the three circles shows the location of the epicenter on the map. This is illustrated below. Objective: In this activity, you will use analyze P-wave and S-wave recordings on a seismogram to

LAB Locating Epicenters - NYS Earth Science

Earthquakes Living Lab: Finding Epicenters and Measuring Magnitudes Activity—Worksheet Example Answers 4 now big earthquakes are measured using the moment magnitude scale; both scales essentially rank the power (energy release) of the earthquake. 13. What data is used to determine magnitude? The magnitude determination is based on seismic data.

Example Answers - TeachEngineering

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

Lab #7 of my Lab Series in this lab students will: 1. analyze and interpret seismograms 2. determine p-wave and s-wave travel time and distance 3. plot earthquake distance circles around 3 seismograph stations using a compass 4. Locate the epicenter of the earthquake

Lab #7 of my Lab Series in this lab students will: 1 ...

ATEP ©2008 UAF Geophysical Institute B-6 Unit 3: Locating the Epicenter Earthquakes occur below Earth's surface. The point under Earth's surface where an earthquake be-

Locating the Epicenter - ATEP

6. Locate the epicenter on "Map B" by constructing a circle whose radius is equal to the distance from the city to the epicenter for all three cities. 7. Where all three circles meet, draw an arrow and label it "epicenter". Leigh-Manuell - "5 Lab Activity: Locating Epicenters Station Arrival Time Difference in Arrival Time Distance to ...

6.5 Locating Epicenters - Earth science

EARTHQUAKES: Epicenter Determination, Seismic Waves, and Hazards Introduction Earthquakes are vibrations of Earth caused by large releases of energy that accompany volcanic eruptions, explosions, and movements of Earth's crust along fault lines. The earthquake vibrations are waves of energy that radiate through Earth away from the focus. These ...

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

An earthquake epicenter can be located from records made of earthquake ... Using the clock time numbers listed in your lab handout, the lag times may be easily calculated. ... "10:02 and 9 seconds, AM, Pacific Standard Time"), and S-waves arrived at 10:03-04 PST. What is the lag time for this earthquake?" ANSWER. Since S-waves arrived later ...

Lab 10 - Earthquake Epicenter Location - oakton.edu

Skills Practice Lab Finding an Epicenter An earthquake releases energy that travels through Earth in all directions. This energy is in the form of waves. Two kinds of seismic waves are P waves and S waves. P waves travel faster than S waves and are the first to be recorded at a seismograph station. The S waves arrive after the P waves. The time ...

Skills Practice Lab Finding an Epicenter

This second-day lab focuses on the culmination of the previous day's material - students triangulate the distance to an epicenter by analyzing seismograph readings Plan your 60-minute lesson in Science or Earth and Space Science with helpful tips from Kane Koller

Eighth grade Lesson Epicenter Lab (2/2) | BetterLesson

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

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