

Finding The Epicenter Lab With Answers

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Finding The Epicenter Lab With

Find the Epicenter Location Map on page 6. To locate the epicenter on the map, for each city construct a circle whose radius is equal to the distance from the city to the epicenter. b. Use the scale of distance of your map to set the drawing compass at the correct radius. 2. Mark and label the epicenter on the map where all three circles intersect.

Finding Epicenters Lab

Review the procedure you followed in this lab and then answer the following question. When you are trying to locate an epicenter, why is it necessary to know the distance from the epicenter for at least three recording stations? It is necessary for several reasons.

Teodora's science blog: Finding the Epicenter lab

Finding the Epicenter Lab Guiding Question: How can you locate an earthquake's epicenter?

Hypothesis: To locate an earthquake's epicenter you have to find out all the areas in which the earthquake was felt, and then take the average and the middle of all the locations.

Julia's freaky Science Blog: Finding the Epicenter Lab

Finding the Epicenter Lab Problem: How can you locate an Earthquake's epicenter? Skills Focus: Interpreting data & drawing conclusions Materials: drawing compass with a pencil, outline map of United States, lab questions Procedure: 1. Look at data table showing differences in earthquake arrival times 2.

Finding the Epicenter Lab - Mrs. Smit's Science Class

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.

Locating the Epicenter of an Earthquake - ntschools.org

The S waves arrive after the P waves. The time difference between the arrival of the P waves and the S waves increases as the waves travel farther from their origin. This difference in arrival time, called lag time, can be used to find the distance to the epicenter of the earthquake.

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

LAB: Locating An Epicenter Background: Geologists who study earthquakes are called seismologist. If you were a seismologist, you receive data from all across the country. Within minutes after an earthquake, seismologists located in San Francisco, Denver, and Seattle would record the times of the arrivals of the P-wave and S-waves. You

LAB: Locating An Epicenter

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

Locating the Epicenter of an Earthquake - Duration: 10:18. Patrick Baldwin 100,687 views. 10:18. 100 Illustrated Ways to Pass the Earth Science Regents 11-20 ... Jefferson Lab 7,831,935 views.

Locating the Epicenter Lab Video

Finding the Epicenter (continued) DATA TABLE Analyze and Conclude Answer the following questions on a separate sheet of paper. 1. Observe the three circles you have drawn. Where is the earthquake's epicenter? 2. Which city on the map is closest to the earthquake epicenter? How far, in kilometers, is this city from the epicenter? 3.

Finding the Epicenter

glencoe.com

glencoe.com

Lab 3 Finding an Epicenter from Seismograms . Times and Speeds for P and S Waves Yield Distance to the Epicenter . Seismograms are pieces of paper on which a wavy line represents vibrations over time.

Lab 3 Finding an Epicenter from Seismograms - studentland

How to locate the epicenter of an earthquake. Also try

<http://www.youtube.com/watch?v=GcqSj43evE0>

Epicenter Location I.wmv

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 5 This is an opinion-based question, but expect students to bring in what they know about triangulation/distance calculation, seismograms/nomograms and/or the magnitude scale.

Example Answers - TeachEngineering

In this lab activity, you will be analyzing data from seismographs and using that data to locate the epicenters of four separate earthquakes around the world. MAP #1- NORTH AMERICA Seismic Station P-Wave Arrival Time S-Wave Arrival Time Lag Time Epicenter Distance P-Wave Travel Time S-Wave Travel Time Origin Time (Time of Earthquake) A 10:00:10 ...

MAP #1- NORTH AMERICA

Finding an Earthquake Epicenter Introduction: Right now you may think it is tough, but after this lab it should be easier to understand how to find the epicenter of an earthquake. Just make sure to follow the steps! A seismograph is an instrument that detects earthquake activity. A seismogram is the printout of data from a seismograph.

Finding an Earthquake Epicenter - Mr. Romano

Locating the Epicenter of an Earthquake. ... Figure out the time of arrival of each wave and enter it in a data table in your lab notebook like the one below: Station: P-wave arrival time (T_p, hh:mm:ss) ... Here is a map for locating the epicenter of the Parkfield quake, with circles marked for stations SAO, KCC, and CMB. ...

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