

# Free read Locating earthquake epicenter lab answers .pdf

is a wave motion in a solid medium where the medium moves perpendicular to the direction of the travel of the wave study with quizlet and memorize flashcards containing terms like fault epicenter focus and more objective to identify the location of an earthquake epicenter using a travel time graph and three seismograph tracings materials ruler map safety drawing compass earth science reference tables procedure 1 study the three seismograph tracings below notice the time scale below each tracing in order to determine the location of an earthquake epicenter seismographs from at least three different places are needed for a particular event in figure 13 9 there is an example seismogram from a station that includes a minor earthquake part 1 e if car 1 arrives at precisely 1 45 22 followed by car 2 at 1 46 37 how far did they travel write your answer in miles this data to zero in on the exact location of the earthquake s epicenter objective you will learn how to interpret a seismogram and use the data from three different seismograms to locate the epicenter of an earthquake vocabulary epicenter focus focal depth p wave s wave answer key 63 after drawing a circle around each seismograph station with the compass the intersection of the three circles is the epicenter it is located close to san diego california answers may vary depending on location common causes would be living near a major fault or rift zone or in the case of the central united states students learn how engineers characterize earthquakes through seismic data

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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 you can see the effects of an earthquake by going directly to the site but the exact position of an epicenter is calculated by triangulating the position from three locations in this lab you will find the epicenter of an earthquake but first review what you know about earthquakes tracings made at three separate seismic stations are needed to locate an earthquake epicenter objective to identify the location of an earthquake epicenter using a travel time graph and three seismograph tracings materials learn to locate an earthquake epicenter using p wave and s wave arrival time differences and travel time curves know the essential components of a seismometer and how seismometers record earthquakes describe the relation between earthquakes volcanoes and plate boundaries example answers finding epicenters and measuring magnitudes worksheet objective to use seismic data and an interactive simulation to triangulate the location and measure the magnitude of an earthquake materials work in pairs sharing one computer with internet access engage 1 here is a map for locating the epicenter of the parkfield quake with circles marked for stations sao kcc and cmb which station would you examine next for additional information a map of the coast of northern california shows seismometer stations represented by blue red and green squares to locate the epicenter of an earthquake you must estimate the time interval between the arrivals of the earthquake s p and s waves the s p interval on the seismograms from three different stations discussion questions answer in complete sentences 1 how do p waves and s waves differ 2 what was the approximate location of the epicenter of this earthquake 3 why is three the minimum number of stations

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necessary to locate an epicenter 4 why does the time between the arrival of the p wave and s wave become greater and greater as you get use a travel time graph to convert lag time into distance use triangulation to accurately locate the epicenter of an earthquake accurately report the latitude and longitude of the epicenter the travel time graph figure 2 is a seismic wave travel time graph why is it that the further away from the epicenter of the earthquake the arrival times of the p and s waves get further apart because p waves travel faster than s waves the further away the epicenter the wider the gap between the p waves and the s waves in this lab you will use seismograms from three locations to determine the epicenter of an earthquake you will use the p and s wave arrival time difference to determine distance to epicenter then use a compass to record the distance to epicenter information above the map and map scale plot the location of the earthquake this can be done by drawing circles with the appropriate radius around the cities of record and identifying where the circles intersect description in this lab you will use seismograms from three locations to determine the epicenter of an earthquake you will use the p and s wave arrival time difference to determine distance to epicenter then use a compass to record the distance radius measured 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 objective to identify the location of an earthquake epicenter using a travel time

## **lab activity locating epicenters flashcards quizlet**

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is a wave motion in a solid medium where the medium moves perpendicular to the direction of the travel of the wave study with quizlet and memorize flashcards containing terms like fault epicenter focus and more

## ***locating the epicenter of an earthquake ntschools org***

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objective to identify the location of an earthquake epicenter using a travel time graph and three seismograph tracings materials ruler map safety drawing compass earth science reference tables procedure 1 study the three seismograph tracings below notice the time scale below each tracing

## ***13 4 locating an earthquake epicenter geosciences libretxts***

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in order to determine the location of an earthquake epicenter seismographs from at least three different places are needed for a particular event in figure 13 9 there

is an example seismogram from a station that includes a minor earthquake

## ***lab exercise 11 2 the logic of locating earthquake epicenters***

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part 1 e if car 1 arrives at precisely 1 45 22 followed by car 2 at 1 46 37 how far did they travel write your answer in miles

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this data to zero in on the exact location of the earthquake s epicenter objective you will learn how to interpret a seismogram and use the data from three different seismograms to locate the epicenter of an earthquake vocabulary epicenter focus focal depth p wave s wave

## **skills practice lab finding an epicenter mrs rathburn s**

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answer key 63 after drawing a circle around each seismograph station with the

compass the intersection of the three circles is the epicenter it is located close to san diego california answers may vary depending on location common causes would be living near a major fault or rift zone or in the case of the central united states

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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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you can see the effects of an earthquake by going directly to the site but the exact position of an epicenter is calculated by triangulating the position from three locations in this lab you will find the epicenter of an earthquake but first review what you know about earthquakes

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tracings made at three separate seismic stations are needed to locate an earthquake epicenter objective to identify the location of an earthquake epicenter using a travel time graph and three seismograph tracings materials

## **earthquakes epicenter determination seismic waves and**

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learn to locate an earthquake epicenter using p wave and s wave arrival time differences and travel time curves know the essential components of a seismometer and how seismometers record earthquakes describe the relation between earthquakes volcanoes and plate boundaries

## **example answers teachengineering**

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example answers finding epicenters and measuring magnitudes worksheet objective to use seismic data and an interactive simulation to triangulate the location and measure the magnitude of an earthquake materials work in pairs sharing one computer

with internet access engage 1

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here is a map for locating the epicenter of the parkfield quake with circles marked for stations sao kcc and cmb which station would you examine next for additional information a map of the coast of northern california shows seismometer stations represented by blue red and green squares

## **finding epicenters and measuring magnitudes worksheet**

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to locate the epicenter of an earthquake you must estimate the time interval between the arrivals of the earthquake s p and s waves the s p interval on the seismograms from three different stations

## ***name regents earth science date period lab 20 finding***

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discussion questions answer in complete sentences 1 how do p waves and s waves



differ 2 what was the approximate locaiton of the epicenter of this earthquake 3 why is three the minimum number of stations necessary to locate an epicenter 4 why does the time between the arrival of the p wave and s wave become greater and greater as you get

## **lab 8 earthquake lab lab locating the epicenters of**

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use a travel time graph to convert lag time into distance use triangulation to accurately locate the epicenter of an earthquake accurately report the latitude and longitude of the epicenter the travel time graph figure 2 is a seismic wave travel time graph

## **earth science module 8 earthquakes locating an epicenter lab**

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why is it that the further away from the epicenter of the earthquake the arrival times of the p and s waves get further apart because p waves travel faster than s waves the further away the epicenter the wider the gap between the p waves and the s waves

## **earth science regents new york science teacher**

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in this lab you will use seismograms from three locations to determine the epicenter of an earthquake you will use the p and s wave arrival time difference to determine distance to epicenter then use a compass to record the

### **lab locating the epicenter of an earthquake ver 2 name**

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using the distance to epicenter information above the map and map scale plot the location of the earthquake this can be done by drawing circles with the appropriate radius around the cities of record and identifying where the circles intersect

### **locating an epicenter lab new york science teacher**

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description in this lab you will use seismograms from three locations to determine the epicenter of an earthquake you will use the p and s wave arrival time difference to determine distance to epicenter then use a compass to record the distance radius measured

## ***name date lab period locating the epicenter of an earthquake***

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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 objective to identify the location of an earthquake epicenter using a travel time

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