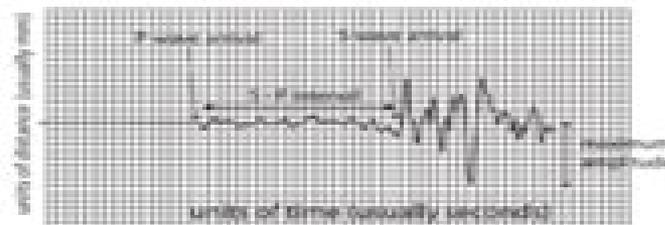


Earthquake Lab

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 related to the earthquake.

Typical seismogram of a small earthquake recorded fairly near the source. The P-waves arrive first and are later swamped by the arrival of the S-waves. The S - P interval is the time between the first arrivals of the P and S waves; it is used to determine the distance from the epicenter. This interaction produces additional seismic waves (phases) which will be detected by seismographs. Refer to Fig. 10.14 in your textbook for an explanation of how seismographs work.



A. Locate the Epicenter

1. Measure the S-P interval from the 3 seismograms shown on the following page, and enter the results in the table below. Then, use the S-P travel time curve (follows the seismogram) to determine the distance between the station and the epicenter and enter the data into the table.
2. Next, take a compass and set its radius to the epicentral distance for each station and draw arcs around each station. Ideally, the three arcs should intersect at a single point, which is the epicenter — if they do not, you should go back and check your work. Clearly mark the location of the epicenter.
3. Is there a known fault in the vicinity of the epicenter that is likely to have slipped to create the earthquake? If so, name the fault.



Station	S-P(sec)	Distance(km)
Elko		
Eureka		
Las Vegas		

12 Earthquake Location Lab Answer Key

University of California (System)



12 Earthquake Location Lab Answer Key:

Scientific and Technical Aerospace Reports ,1981 Energy Research Abstracts ,1988 **Geophysics & Tectonics Abstracts** ,1983 **Just the Facts: Earth and Space Science, Grades 4 - 6** Sinsel,2007-06-11 Engage scientists in grades 4 6 and prepare them for standardized tests using Just the Facts Earth and Space Science This 128 page book covers concepts including rocks and minerals weathering fossils plate tectonics earthquakes and volcanoes Other topics include oceans the atmosphere weather and climate humans and the environment and the solar system It includes activities that build science vocabulary and understanding such as crosswords word searches graphing creative writing vocabulary puzzles and analysis An answer key and a standards matrix are also included This book supports National Science Education Standards and aligns with state national and Canadian provincial standards **Handbook of Concrete Engineering** Mark Fintel,1974 **Annual Report of the Superintendent of Insurance to the New York Legislature** New York (State). Insurance Department,1926 **U.S. Government Research & Development Reports** ,1970 U.S. Government Research & Development Reports ,1968-10 *Report of the President* Stanford University,1904 **Government Reports Announcements & Index** ,1996 **Government Reports Announcements** ,1974-11 **Government Reports Annual Index** ,1984 **Earthquake Engineering Research at the Portland Cement Association** ,1983 **Report of the President** University of California, Berkeley,1898 **Annual Report** India. Department of Science and Technology,2006 **Biennial Report of the President of the University on Behalf of the Regents ..** University of California (System). Regents,1912 Biennial Report of the President of the University on Behalf of the Board of Regents University of California (System),1912 **Annual Report of the President of the University on Behalf of the Regents** California. University. Regents,1911 **Biennial Report of the President of the University on Behalf of the Regents to His Excellency the Governor of the State** University of California (1868-1952). President,1912 Annual Report of the President of the University on Behalf of the Regents to His Excellency the Governor of the State of California University of California, Berkeley,1910

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Table of Contents 12 Earthquake Location Lab Answer Key

1. Understanding the eBook 12 Earthquake Location Lab Answer Key
 - The Rise of Digital Reading 12 Earthquake Location Lab Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying 12 Earthquake Location Lab Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 12 Earthquake Location Lab Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from 12 Earthquake Location Lab Answer Key
 - Personalized Recommendations
 - 12 Earthquake Location Lab Answer Key User Reviews and Ratings
 - 12 Earthquake Location Lab Answer Key and Bestseller Lists

5. Accessing 12 Earthquake Location Lab Answer Key Free and Paid eBooks
 - 12 Earthquake Location Lab Answer Key Public Domain eBooks
 - 12 Earthquake Location Lab Answer Key eBook Subscription Services
 - 12 Earthquake Location Lab Answer Key Budget-Friendly Options
6. Navigating 12 Earthquake Location Lab Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - 12 Earthquake Location Lab Answer Key Compatibility with Devices
 - 12 Earthquake Location Lab Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 12 Earthquake Location Lab Answer Key
 - Highlighting and Note-Taking 12 Earthquake Location Lab Answer Key
 - Interactive Elements 12 Earthquake Location Lab Answer Key
8. Staying Engaged with 12 Earthquake Location Lab Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 12 Earthquake Location Lab Answer Key
9. Balancing eBooks and Physical Books 12 Earthquake Location Lab Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 12 Earthquake Location Lab Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 12 Earthquake Location Lab Answer Key
 - Setting Reading Goals 12 Earthquake Location Lab Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 12 Earthquake Location Lab Answer Key
 - Fact-Checking eBook Content of 12 Earthquake Location Lab Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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