



Earth Science Lab

Lab # _____

Name: _____ Date: _____ Lab Day: _____

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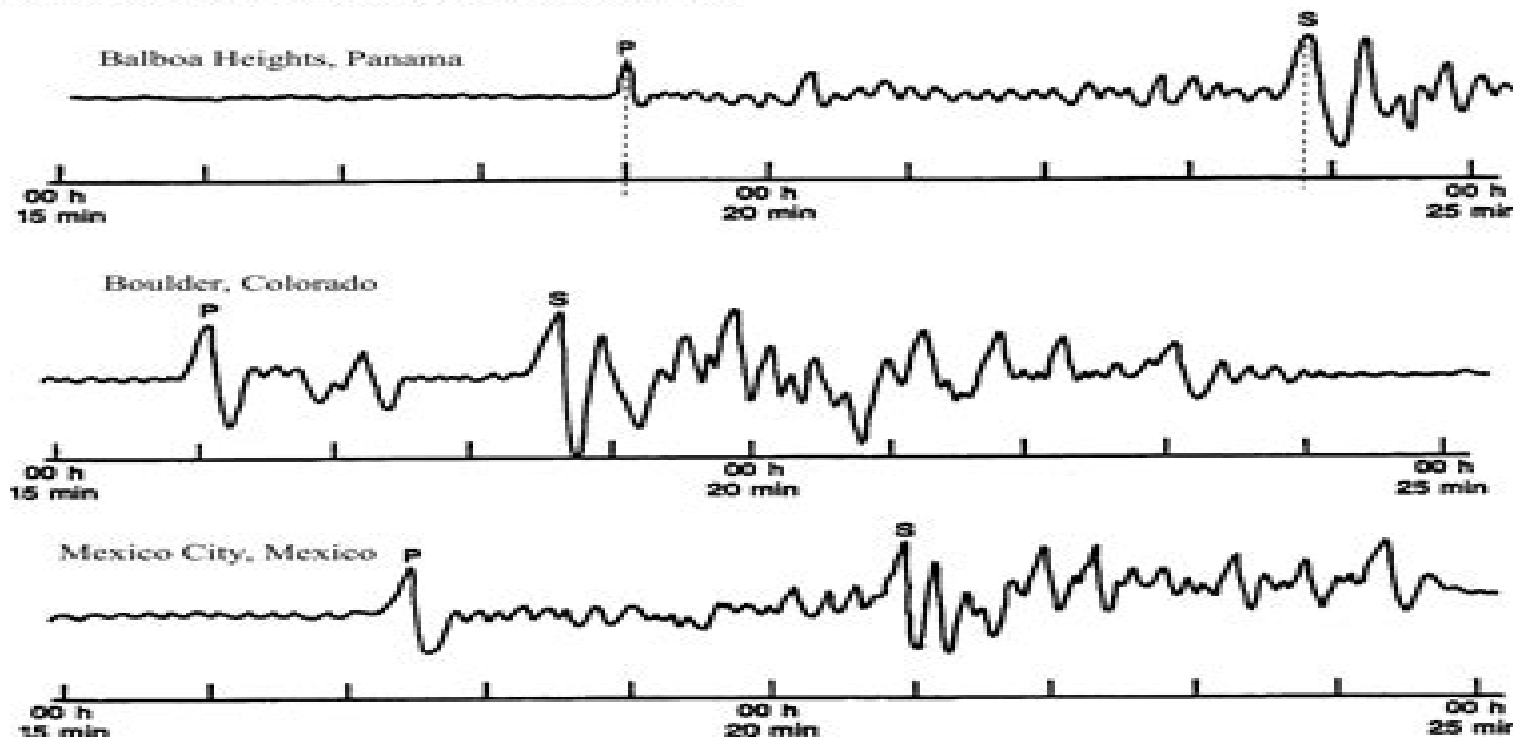
Locating the Epicenter of an Earthquake

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.

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. Each mark on the time scale represents one minute.



Locating Epicenter Lab

BM King



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Hands-On General Science Activities With Real-Life Applications Pam Walker, Elaine Wood, 2008-04-21 In this second edition of Hands On General Science Activities with Real Life Applications Pam Walker and Elaine Wood have completely revised and updated their must have resource for science teachers of grades 5 12 The book offers a dynamic collection of classroom ready lessons projects and lab activities that encourage students to integrate basic science concepts and skills into everyday life America's Lab Report National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Science Education, Committee on High School Laboratories: Role and Vision, 2006-01-20 Laboratory experiences as a part of most U S high school science curricula have been taken for granted for decades but they have rarely been carefully examined What do they contribute to science learning What can they contribute to science learning What is the current status of labs in our nation s high schools as a context for learning science This book looks at a range of questions about how laboratory experiences fit into U S high schools What is effective laboratory teaching What does research tell us about learning in high school science labs How should student learning in laboratory experiences be assessed Do all student have access to laboratory experiences What changes need to be made to improve laboratory experiences for high school students How can school organization contribute to effective laboratory teaching With increased attention to the U S education system and student outcomes no part of the high school curriculum should escape scrutiny This timely book investigates factors that influence a high school laboratory experience looking closely at what currently takes place and what the goals of those experiences are and should be Science educators school administrators policy makers and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished *The Effectiveness of Teaching from Smaller Concepts to Larger Using Data and Observations in Plate Tectonics* Matthew L. Schuchardt, 2010 *Waves, an Integrated Approach with Real World Applications* Sandra L. Brough-Gresh, 2001 Earth Science, 2001 *Problem Solving in Geology* Sheldon Judson, 2000-02 B Designed give readers instruction and practice with basic geologic field and lab skills this exceptionally affordable yet high quality lab manual workbook features 68 unique and intuitive exercises that covering 19 key geologic topics The exercises are based on the principles of scientific inquiry and challenge readers to think beyond the activity at hand to the larger questions of applied geologic work Problems range from the simple to complex and calculations are based on simple arithmetic ROCK EVOLUTION Minerals and Rocks MAPPING THE EARTH Topographic Maps Air Photos Geologic Maps Structures and Earth History Seismic Reflections Reveal Subsurface Geology SURFICIAL PROCESSES AND THE ENVIRONMENT Landslides Streams Ground Water Glaciation Beaches PLATE TECTONICS Earthquakes and Seismic Risk Volcanos and Volcanic Hazards Earthquakes Volcanos and Plate Tectonics Plate Movements EARTH MATERIALS Rock forming Minerals Igneous Rocks Sedimentary Rocks Metamorphic Rocks Common Rocks in the

Field For anyone interested in learning geologic field and lab skills **Focus on Earth Science** ,2001 **Science Spectrum** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03 **Teaching Science in the Block** Alvin Pettus,Myron Blosser,2014-01-09 This book provides detailed instructional strategies sample lesson plans and sample assessments to help science teachers make the best us of the additional time available in a block schedule Earthquakes Science Learning Guide NewPath Learning,2014-03-01 The Earthquakes Student Learning Guide includes self directed readings easy to follow illustrated explanations guiding questions inquiry based activities a lab investigation key vocabulary review and assessment review questions along with a post test It covers the following standards aligned concepts How an Earthquake Occurs Types of Stress in Crustal Rock Faults in the Earth s Crust How Earth s Surface Changes Seismic Waves Measuring Earthquakes The Richter Scale Earthquake Destruction and Earthquake Safety Aligned to Next Generation Science Standards NGSS and other state standards Geothermal Energy Update ,1981 *U.S. Government Research & Development Reports* ,1970 **The Definitive Guide to Vista Migrations** Realtimepublishers.com,2006 U.S. Geological Survey Professional Paper ,1971 *Technical Abstract Bulletin* ,1964 **Seismological Research Letters** ,2006 **Geological Survey Professional Paper** ,1949 **The San Fernando, California, Earthquake of February 9, 1971** ,1971 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration,1977-03 *Nuclear Science Abstracts* ,1976

Locating Epicenter Lab: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Locating Epicenter Lab : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Locating Epicenter Lab : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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