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LINK: Student Exploration: Earthquakes 1 – Recording Station

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: body wave, earthquake, epicenter, fault, focus, P-wave, S-wave, seismic wave, seismogram, seismograph

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Have you ever experienced an **earthquake**? If so, what did it feel like? No
2. Earthquakes are usually caused by the sudden movement of rocks along a **fault**, or fracture, in Earth's crust. The most famous fault in the U.S. is the San Andreas Fault in California.

What major cities are located near the San Andreas Fault?

San Bernardino and San Francisco.**Gizmo Warm-up**

The *Earthquakes 1 – Recording Station* Gizmo simulates the **seismic waves** released by an earthquake. To begin, look at the key on the bottom left side of the Gizmo.

1. The **epicenter** of the earthquake is the point on Earth's surface closest to the **focus**, or origin, of the earthquake.
 - A. What symbol represents the epicenter? The Circle
 - B. What symbol represents the recording station? The triangle with the A.
2. Click **Play** (▶) and observe the seismic waves leaving the epicenter of the earthquake.
 - A. What types of seismic waves are released? P- S waves.
 - B. Look at the **Recording station detector** on the upper left side of the Gizmo. What happens when the seismic waves hit the recording station? The energy of the wave gets stronger.



Study Guide Part A Earthquakes Answers

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Study Guide Part A Earthquakes Answers:

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Table of Contents Study Guide Part A Earthquakes Answers

1. Understanding the eBook Study Guide Part A Earthquakes Answers
 - The Rise of Digital Reading Study Guide Part A Earthquakes Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Part A Earthquakes Answers
 - 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 Study Guide Part A Earthquakes Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Part A Earthquakes Answers
 - Personalized Recommendations
 - Study Guide Part A Earthquakes Answers User Reviews and Ratings
 - Study Guide Part A Earthquakes Answers and Bestseller Lists

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