

## Study Guide for Earthquakes

Use your notes and the textbook to find the answers to the questions.

1) How is a fault classified?

The directions in which the rocks move along it

2) Define the following and draw a small picture

**Normal Fault-** the block above the fault plane slides down relative to the other block



**Reverse Fault-** the rock above the fault plane moves up relative to the other rock



**Strike-Slip Fault** -Blocks of rock move sideways on either side on the of the fault plane



3) What are the three types of seismic waves?

Primary Waves (P-waves)

Secondary Waves (S- waves)

surface waves

4) Which type of seismic wave is the fastest?

Primary waves

5) Which type of seismic wave causes the most damage?

Surface Wave

6) Which types of seismic waves can travel through solids only?

Surface Wave / Secondary Wave

7)What causes earthquakes?

the sudden movement of rock along a fault

8)What are the two scales use to measure earthquakes?

Richter scale/ Moment Magnitude scale

9) What does the Moment Magnitude scale measure?

the total amount of energy released by an earthquake

10)Define **Focus-** The point underground where the first movement of rocks occurs during an earthquake is called the epicenter.

11) Where is the **epicenter** located?

Directly above the focus on the surface of the Earth

12) What is the name of the instrument that scientist use to record ground movement?

seismograph

13) Define **liquefaction-**

a process in which shaking of the ground causes soil to act like a liquid

14) Define Tsunami -

a water wave triggered by an earthquake, volcanic eruption, or landslide

15) Define Aftershock-

Smaller earthquakes that occur after a large earthquake

16) How many seismic stations are needed to find the epicenter of an earthquake?

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# Earthquakes Study Guide Answers

**Mark Steyvers**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## Earthquakes Study Guide Answers:

**Earthquake Study Guide** Glen Earthsong, AI, 2025-02-22 Earthquake Study Guide explores the science behind seismic activity aiming to provide readers with a comprehensive understanding of earthquakes seismology and potential disaster preparedness It examines how geological data and tectonic research can improve our ability to predict and mitigate the devastating effects of these natural disasters Did you know that understanding seismic wave behavior is crucial for assessing risk and developing effective early warning systems The book also highlights fault line dynamics explaining how different types of faults rupture and cause earthquakes The book begins with a historical overview of seismology tracing its evolution to modern techniques and progresses through key concepts like plate tectonics and stress accumulation It uniquely integrates traditional geological methods with modern data analytics offering a fresh perspective on earthquake prediction Each chapter builds upon the previous one from introducing seismology's fundamental principles to exploring fault line behavior and geological indicators This approach equips the reader with practical tools and techniques for assessing seismic risk and understanding the potential for earthquake resistant design making it a valuable resource **Understanding**

**Earth Student Study Guide** Peter L. Kresan, Reed Mencke, 2006-05-03 The guide helps students prepare for lectures and exams with a heavy emphasis on utilizing the book's Web resources Student Study Guide Peter L. Kresan, Reed

Mencke, Frank Press, Raymond Siever, 2003-09-25 This reconceptualization of the text Understanding Earth reflects the fundamental changes in the field of physical geology over the past several years **Study Guide** Stanley

Chernicoff, 2001-08 From Edward E Chatelain Valdosta State University Georgia this study guide helps students review and master the key ideas from every chapter through labeling exercises Chapter Reviews with matching statements plus Practice Tests and Challenge Tests that consist of multiple choice true false matching and short essay questions Understanding

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