Study Guide for Earthquakes

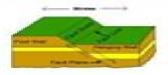
Use your notes and the textbook to find the answers to the questions.

1) How is a fault classified?

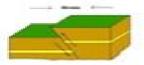
The directions in which the rocks move along it

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 though 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 dies the Moment Magnitude scale measure?

the total amount of energy released by an earthquike

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

Jin-Ying Zhang

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 Earth John Grotzinger, Thomas H. Jordan, 2010 Chapter by chapter help for studying and exam review with lots of support for working with the book s media resources New Rudman's Question and Answers on The-- CLEP College-Level Examination Program Subject Test In-- Geology National Learning Corporation, 2018 The College Level Examination Program CLEP enables students to demonstrate college level achievement and earn college credit in various subject areas based on knowledge acquired through self study high school and adult courses or through professional means The CLEP Geology Passbook R prepares you by sharpening knowledge of the skills and concepts necessary to succeed on the upcoming exam Shipman Phys Sci 6e Study Guide James T. Shipman, Jerry D. Wilson, 1990 and the college courses that follow The New Wider World - Teacher's Resource Guide - Second Edition Neil Anthony Punnett, Neil Punnett, Alison Rae, 2003 Provides activity sheets that are written at different levels to suit a wider range of abilities Contains chapter tests complete with details of assessment Provides a variety of decision making activities IT tasks and enquiry based exercises Close links to exercises in the book The Sciences, Study Guide James Trefil, Anthony J. Gaudin, Robert M. Hazen, 2000-11-24 The

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web 1 motion 1 1 1 speed velocity and acceleration 1 1 2 free fall 8 high school for their input in writing editing and solving exercises in this book finally i give my heartfelt thanks to my husband paul hickman for his countless hours proofreading editing and problem solving and for his unending support and encouragement throughout