

Lab Module 2 – Plate Tectonics Worksheet

Section Number: 2501

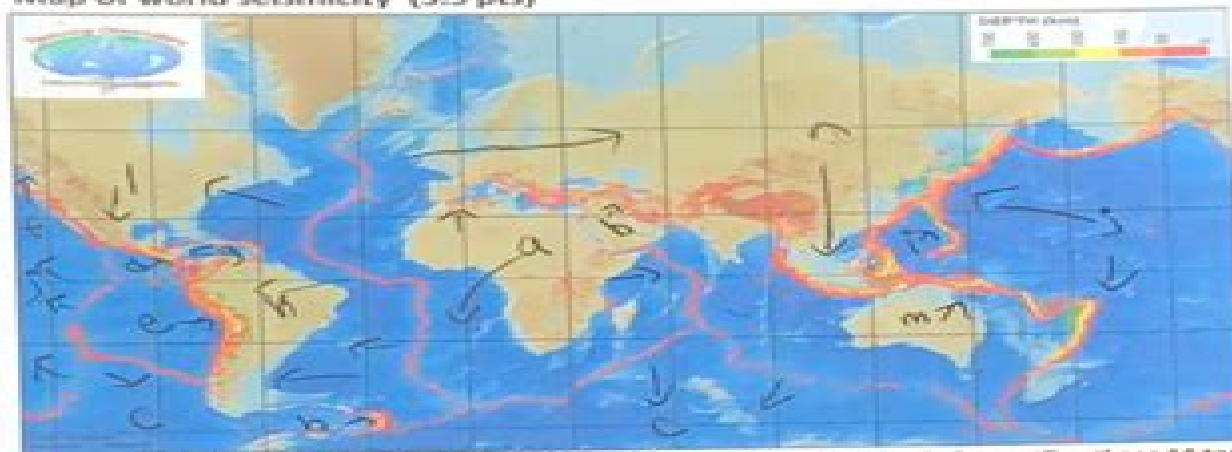
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Name: Deanna Williams

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Part 1. Plate boundaries, earthquakes and volcanism

A. Map of world seismicity (3.5 pts)



Using earthquake epicenters as an indicator of the location of plate boundaries, outline these 14 tectonic plates and label them with the letter as shown below. Use your sharpie to make our notations clear and readable.

- a. African
- b. Arabian
- c. Antarctic
- d. Cocos
- e. Nazca

- f. Juan de Fuca
- g. Caribbean
- h. Scotia
- i. Philippine
- j. Pacific

- k. South American
- l. North American
- m. Indian-Australian
- n. Eurasian

- B. Notice the color-coding used in the above map, showing that earthquakes occur at different depths. Red indicates shallow earthquakes (0-50km depth), orange and yellow indicate intermediate (51-300km) and greens indicate deep (between 300-700km depth). How would you characterize earthquakes along the axes of the mid-ocean ridges? Circle one: SHALLOW INTERMEDIATE DEEP (1)

- C. Locate (but don't label) the following deep ocean trenches, using text figures 1.23 or 13.4 to assist you: Mariana Trench, Peru-Chile Trench, Tonga Trench, Kermadec Trench, Japan Trench, Kurile Trench. Recall from your reading that trenches form when a slab of oceanic lithosphere subducts beneath another tectonic plate. How would you characterize the earthquakes in zones parallel to deep ocean trenches? INTERMEDIATE DEEP (1)
CIRCLE all that apply: SHALLOW

Geology 101 Lab Plate Tectonics Answers

Kent C. Condie



Geology 101 Lab Plate Tectonics Answers:

Cornell University Courses of Study Cornell University,1991 *Catalogue Number. Course Catalog*
Anonymous,2025-08-11 Reprint of the original first published in 1876 The Antigonos publishing house specialises in the publication of reprints of historical books We make sure that these works are made available to the public in good condition in order to preserve their cultural heritage **Tectonic Archaeology** Gina L. Barnes,2022-12-29 The effects of tectonic processes on archaeological sites are evidenced by earthquake damage volcanic eruptions and tsunami destruction but these processes also affect a broader sphere of landform structures environment and climate An overview of tectonic archaeology is followed by a detailed summary of geoarchaeological fieldwork in Japan **Bibliography and Index of Geology** ,1981
Stanford Bulletin ,2002 **Spring Meeting** American Geophysical Union. Meeting,1993 **The software catalog microcomputers** Menu (Firm) (Fort Collins, Colo.),1989 *Cadernos do Laboratorio Xeolóxico de Laxe* ,2007
Environment Abstracts Annual ,1992 This database encompasses all aspects of the impact of people and technology on the environment and the effectiveness of remedial policies and technologies featuring more than 950 journals published in the U S and abroad The database also covers conference papers and proceedings special reports from international agencies non governmental organizations universities associations and private corporations Other materials selectively indexed include significant monographs government studies and newsletters **Science Citation Index** ,1994 Vols for 1964 have guides and journal lists Subject Guide to Books in Print ,1971 Plate Tectonics Kent C. Condie,1997-05-07 This comprehensive text has established itself over the past 20 years as the definitive work in its fields presenting a thorough coverage of this key area of structural geology in a way which is ideally suited to advanced undergraduate and masters courses The thorough coverage means that it is also useful to a wider readership as an up to date survey of plate tectonics The fourth edition brings the text fully up to date with coverage of the latest research in crustal evolution supercontinents mass extinctions A new chapter covers the feedbacks of various Earth systems In addition a new appendix provides a valuable survey of current methodology **Physical Geology** Charles C. Plummer,David McGeary,1996 Plate Tectonics Wolfgang Frisch,Martin Meschede,Ronald C. Blakey,2010-11-02 How are mountains formed Why are there old and young mountains Why do the shapes of South America and Africa fit so well together Why is the Pacific surrounded by a ring of volcanoes and earthquake prone areas while the edges of the Atlantic are relatively peaceful Frisch and Meschede and Blakey answer all these questions and more through the presentation and explanation of the geo dynamic processes upon which the theory of continental drift is based and which have lead to the concept of plate tectonics **Tectonics** Eldridge M. Moores,Robert J. Twiss,2014-07-23 Deformation of the Earth s crust happens at a multitude of scales ranging from submicroscopic to planetary Tectonics explores structures and processes from regional to global differentiating itself from the material covered in most structural geology textbooks Moores and Twiss emphasize basic principles and methodologies

of tectonics embracing the time honored perspective of using present processes to understand the past Comprehensive in scope and detail coverage includes the effects of plate motions and reconstructions and the resultant structures associated with active rift transform and subduction boundaries as well as triple junctions and collision zones deformations of both the ocean basins and the continents and orogenic belts Moores and Twiss present tectonics as an open ended field of study in which assumptions can be challenged and interpretations changed The authors emphasize the use of models as a means of understanding observations and putting them in context to maintain a distinction between what we know from observing the Earth and what we infer from interpretation

Plate Tectonics Jonathon S. Erickson, Jon Erickson, 1999 Explains the theory of continental drift and shows how this activity has affected the Earth's geological make up

Plate Tectonics Gary Lewis, 1966

Investigating Plate Tectonics Greg Young, 2007-09-21 In this adventurous title readers learn all about plate tectonics A brief history of Alfred Wegener's theory of continental drift introduces readers to the development of plate tectonics and how it helped form the Earth we know today Through colorful images helpful charts and graphs and easy to read text readers will discover such fascinating topics as magnetic pole reversal divergent and convergent plate boundaries the ocean continental division and the San Andreas Fault A captivating lab activity is featured to encourage children to further explore geology

Plate Tectonics & Crustal Evolution Kent C. Condie, 2013-10-22 This substantially revised edition includes recently published information relating to plate tectonics and continental origin A large number of new figures have been added and new sections included on meteorites seismic tomography mantle convection accretionary terranes mantle sources and evolution continental growth secular changes in Earth history also a new chapter on exogenic Earth systems In addition the following topics have been substantially revised lunar origin global gravity origin of the core metamorphism plate boundaries hotspots tectonic settings and magma associations Among the new features the Tectonic Map of the World has also been updated

This Dynamic Earth W. Jacquelyne Kious, Robert I. Tilling, 1996 Provides a brief introduction to the concept of plate tectonics Highlights some of the people and discoveries that have advanced the development of the theory and traces its progress since its proposal Fully illustrated with extraordinary color photos and maps Chapters historical perspective developing the theory ocean floor mapping magnetic stripping and polar reversals magnetic stripes and isotopic clocks understanding plate motions Hotspots mantle thermal plumes some unanswered questions plate tectonics and people References

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