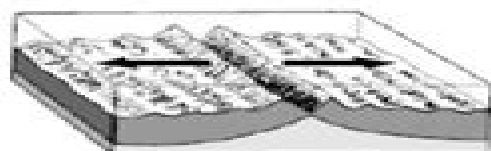


Name: _____

Date: _____

Plate Tectonics Worksheet

Label each figure by writing the type of plate boundary it shows.



1. _____



2. _____



3. _____

1. Divergent

2. Convergent

3. Transform

4. In your own words, state the theory of plate tectonics?

The theory that explains how large pieces of Earth's outermost layer, called tectonic plates, move and change shape.

5. Describe what happens when two plates carrying oceanic crust collide.

When two oceanic crust collide, one plate is subducted (the more dense, usually the older crust).

6. Describe what happens when two plates carrying continental crust collide.

When two continental plates collide, they buckle and thicken, which pushes continental crust upward creating mountain ranges.

7. Describe what happens when a plate carrying oceanic crust collides with a plate carrying continental crust.

When an oceanic crust collides with a continental crust, the ocean crust sinks (subducts) because it is thinner and more dense.

8. What happens along a subduction zone?

Subduction zones occur at a convergent boundary between an oceanic plate and continental plate. The more dense oceanic crust sinks.

9. What do most scientists believe is the driving force behind plate tectonics?

Convection currents

10. How do convection currents work (how they move the tectonic plates)?

Hot rock (expands) from deep within the Earth rises, but cooler rock near the surface sinks. Convection causes the oceanic lithosphere to move sideways and away from the mid-ocean ridge.

11. List 2 features that form along a convergent boundary.

Ocean/ocean = trench

Ocean/continent = trench

Continent/continent = mountain

12. List 2 features that form along a divergent boundary.

Ocean/Ocean = ridge

Continent/continent = rift valley

13. What is a transform boundary?

Plate boundary where two plates slip past each other, in opposite directions.

Pearson Earth Science Plate Tectonics Test

DP Hallahan



Pearson Earth Science Plate Tectonics Test:

My Revision Notes: Pearson Edexcel A level Geography: Third Edition Michael Witherick, Dan Cowling, Michael Chiles, Philly Simmons, 2021-09-24 Target exam success with My Revision Notes Our updated approach to revision will help students learn practise and apply their skills and understanding Coverage of key content is combined with practical study tips and effective revision strategies to create a guide that can be relied on to build both knowledge and confidence My Revision Notes Pearson Edexcel A level Geography will help students Develop subject knowledge by making links between topics for more in depth exam answers Plan and manage revision with our topic by topic planner and exam breakdown introduction Practise and apply skills and knowledge with Exam style questions and frequent check your understanding questions and answer guidance online Build quick recall with bullet pointed summaries at the end of each chapter Understand key terms for the exam with user friendly definitions and a glossary Avoid common mistakes and enhance exam answers with Examiner tips Improve subject specific skills with an Exam skills checkbox at the end of each chapter

Precambrian Plate Tectonics A. Kröner, 1981-01-01 Precambrian Plate Tectonics **Treatise on Geophysics, Volume 7** David Bercovici, 2010-05-17 Treatise on Geophysics Mantle Dynamics Volume 7 aims to provide both a classical and state of the art introduction to the methods and science of mantle dynamics as well as survey leading order problems both solved and unsolved and current understanding of how the mantle works It is organized around two themes 1 how is mantle convection studied and 2 what do we understand about mantle dynamics to date The first four chapters are thus concerned with pedagogical reviews of the physics of mantle convection laboratory studies of the fluid dynamics of convection relevant to the mantle theoretical analysis of mantle dynamics and numerical analysis and methods of mantle convection The subsequent chapters concentrate on leading issues of mantle convection itself which include the energy budget of the mantle the upper mantle and lithosphere in and near the spreading center mid ocean ridge environment the dynamics of subducting slabs hot spots melting anomalies and mantle plumes and finally geochemical mantle dynamics and mixing Self contained volume starts with an overview of the subject then explores each topic in detail Extensive reference lists and cross references with other volumes to facilitate further research Full color figures and tables support the text and aid in understanding Content suited for both the expert and non expert **Ancient Supercontinents and the Paleogeography of Earth** Lauri J. J. Pesonen, Johanna Salminen, Sten-Ake Elming, David A.D. A.D. Evans, Toni Veikkolainen, 2021-10-06 Ancient Supercontinents and the Paleogeography of Earth offers a systematic examination of Precambrian cratons and supercontinents Through detailed maps of drift histories and paleogeography of each continent this book examines topics related to Earth's tectonic evolution prior to Pangea including plate kinematics orogenic development and paleoenvironments Additionally this book discusses the methodologies used principally paleomagnetism and tectonostratigraphy and addresses geophysical topics of mantle dynamics and geodynamo evolution over billions of years Structured clearly with consistent coverage for Precambrian

cratons this book combines state of the art paleomagnetic and geochronologic data to reconstruct the paleogeography of the Earth in the context of major climatic events such as global glaciations It is an ideal up to date reference for geoscientists and geographers looking for answers to questions surrounding the tectonic evolution of Earth Provides robust paleogeographies of Precambrian cratons based on high quality paleomagnetic and geochronologic data and critically tested by global geological datasets Includes links to updated databases for the Precambrian such as PALEOMAGIA and the Global Paleomagnetic Database GPMDB Presents full color maps of the drift histories of each continent as well as their paleogeographies Discusses key questions regarding continental drift the supercontinent cycle and the geomagnetic dipole hypothesis and analyzes palaeogeography in the context of Earth s holistic evolution Geological Survey Professional Paper,1984 Geological Survey Professional Paper Geological Survey (U.S.),1983 *U.S. Geological Survey Professional Paper*,1983 **The Geology of the Arabian-Nubian Shield** Zakaria Hamimi,Abdel-Rahman Fowler,Jean-Paul Liégeois,Alan Collins,Mohamed G. Abdelsalam,Mohamed Abd EI-Wahed,2021-07-30 This richly illustrated book reviews the geology tectonics and mineralization of the Arabian Nubian Shield ANS in 27 chapters It starts with an examination of the ANS lithospheric scale features explores Mesoproterozoic units and deals with the ANS oceanic stage Arc volcanism and plutonism post collision basins and volcanics are discussed as well as the younger granitoid magmatism and the deformation history of the ANS The book provides information on ANS glacial stages and late magmatism Chapters are devoted to review the transition between ANS and the reworked continent to its south Finally it discusses how ANS structures influenced the overall East African Rift System **TOEFL iBT** Pamela J. Sharpe,2022-06-07 Always study with the most up to date prep Look for TOEFL iBT Premium with 8 Online Practice Tests Online Audio Eighteenth Edition ISBN 9781506290683 on sale April 2 2024 Publisher s Note Products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entities included with the product **Tidal Friction and the Earth's Rotation II** P. Brosche,Jürgen Sündermann,2012-12-06 In the four years which elapsed between our first workshop on Tidal Friction and the Earth s Rotation and the second the proceedings of which are presented here many of the disciplines involved made advances which we felt should be exchanged We were encouraged by the good reception our first report met with Of course more insight often means more problems Therefore this volume contains new results and revisions of matters which previously appeared settled We are certainly far from final answers For this reason differing opinions on some issues are to be found in this book Moreover we have refrained from making mathematical symbols uniform to avoid the risk of errors and non compatibility with the earlier work of an author The two workshops have stimulated collaboration between participants working in various fields The final versions of the contributions have already profited from these discussions We are convinced that they will also influence further investigations This advancement of our past and future aims is based on the very existence of the Centre for Interdisciplinary Studies and on the support we have received from its leading members The

authors have agreed to dedicate this book to Dr H Gerstenkorn who died in 1981 He contributed fundamental ideas to the scientific fields treated in the meeting P Brosche Daun September 1982 J Slindermann Contents Julius Robert Mayer s Ideas on a Theory of Tidal Friction H P Miinzenmayer Nursing School Entrance Exam ,2005 Discusses career opportunities in nursing offers test taking strategies and includes three full length practice exams **Canadian Journal of Earth Sciences** ,1995 **Compressional Tectonics** Elizabeth J. Catlos,Ibrahim Çemen,2023-05-16 A synthesis of current knowledge on collisional and convergent plate boundaries worldwide Major mountain belts on Earth such as the Alps Himalayas and Appalachians have been built by compressional tectonic processes during continent continent and arc continent collisions Understanding their formation and evolution is important because of the hazards associated with convergent and collisional plate boundaries and because these mountain belts contain resources such as precious metals rare earth elements oil gas and coal Compressional Tectonics Plate Convergence to Mountain Building reviews our present day knowledge of the tectonic evolution of the Alpine Himalayan and Appalachian belts Volume highlights include Overview of terminology relating to compressional and contractional tectonics Discussion of subduction zone dynamics Debates over the timing of the collision and convergence of particular subduction and suture zones Examples of the different stages in the development of orogenic belts This book is one of a set of three in the collection Tectonic Processes A Global View The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals The Science of Rare Earth Elements Frank R. Spellman,2022-12-30 This book examines rare earth elements REEs materials and metals that are critical to modern life These serve as crucial ingredients in the latest technologies including electronics electric motors magnets batteries generators energy storage systems supercapacitors pseudocapacitors specialty alloys and other emerging applications REEs are used in various sectors including health care transportation power generation petroleum refining and consumer electronics The Science of Rare Earth Elements Concepts and Applications defines these elements their histories properties and current and potential future applications across a wide range of industries across the world It also discusses the environmental benefits such as components in electric vehicles wind turbines solar applications and energy storage systems Conversely the book also examines the liabilities of mining these REEs Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **The Appalachian-Ouachita Orogen in the United States** Robert D. Hatcher, Jr.,William A. Thomas,George W. Viele,1989 Permo-carboniferous Magmatism and Rifting in Europe B. Marjorie Wilson,2004 **Economic Geology** ,2000 *The*

School Science Review ,2006 *Cenozoic Volcanism in the Mediterranean Area* Luigi Beccaluva,Gianluca Bianchini,B.
Marjorie Wilson,Marjorie Wilson,2007-01-01

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