

Plate Tectonics

7

Name _____

Date _____

Course/Section _____

Due Date _____

1. The distribution of earthquakes defines the boundaries of which major Earth feature?

Plate tectonics and fault lines.

2. Deep-focus earthquakes are associated with what prominent ocean-floor feature?

3. Along what prominent ocean-floor features do shallow-focus earthquakes occur?

4. Why do Earth scientists think that rigid slabs of the lithosphere are descending into the mantle near the Tonga islands?

5. Describe how paleomagnetism is used to calculate the rate of seafloor spreading.

6. Based on your calculations in Activity 7.6B, what are the rates of seafloor spreading for the following ocean basins?

North Atlantic basin: _____ cm/yr

Pacific basin: _____ cm/yr

7. Based on your calculations in Activity 7.6C, what are the ages for the North and South Atlantic basins at the locations examined?

North Atlantic basin: _____ million years old

South Atlantic basin: _____ million years old

8. Based on your calculations in Activity 7.7, what is the maximum velocity for the Pacific plate?

_____ cm/yr

9. Complete the block diagrams in FIGURE 7.10 to illustrate the types of plate boundaries listed below each diagram. Include arrows to indicate relative plate motion.



A. Transform fault boundary



B. Convergent boundary



C. Divergent boundary

FIGURE 7.10 Block diagrams to accompany Question 9.

Plate Tectonics Lab Manual Answers

R Bogdan



Plate Tectonics Lab Manual Answers:

Laboratory Manual in Physical Geology American Geological Institute, 2000 For majors and non majors in undergraduate lab courses for Introductory Geology and Physical Geology The best selling lab manual for undergraduate lab courses in Physical Geology or Introductory Geology for majors and non majors With contributions from more than 120 highly regarded geologists and geoscience educators and an exceptional illustration program by Dennis Tasa this user friendly laboratory manual focuses students on the basic principles of geology and their applications to everyday life in terms of natural resources natural hazards and human risks This edition pushes the frontiers of geologic education even further with the inclusion of four new computer based labs

Exploring Physical Anthropology: Lab Manual and Workbook, 4e Suzanne E Walker Pacheco, 2022-01-14 Exploring Physical Anthropology is a comprehensive full color lab manual intended for an introductory laboratory course in physical anthropology It can also serve as a supplementary workbook for a lecture class particularly in the absence of a laboratory offering This laboratory manual enables a hands on approach to learning about the evolutionary processes that resulted in humans through the use of numerous examples and exercises It offers a solid grounding in the main areas of an introductory physical anthropology lab course genetics evolutionary forces human osteology forensic anthropology comparative functional skeletal anatomy primate behavior paleoanthropology and modern human biological variation

Study Guide for Physical Geology, Geo 1001 (T451-W485) Robert Evan Sloan, E. C. Alexander (Jr.), 1985

Integrated Science Laboratory Manual Michael J. Padilla, 2000 Includes 74 investigations pre lab discussions and critical thinking questions safety manual and student safety test teaching support

Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum

materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide. The criteria reflect and incorporate goals and principles of the National Science Education Standards. The annotations designate the specific content standards on which these curriculum pieces focus. In addition to the curriculum chapters, the guide contains six chapters of diverse resources that are directly relevant to middle school science. Among these is a chapter on educational software and multimedia programs; chapters on books about science and teaching; directories and guides to science trade books and periodicals for teachers and students; Another section features institutional resources. One chapter lists about 600 science centers, museums, and zoos where teachers can take middle school students for interactive science experiences. Another chapter describes nearly 140 professional associations and U.S. government agencies that offer resources and assistance. Authoritative, extensive, and thoroughly indexed, and the only guide of its kind, *Resources for Teaching Middle School Science* will be the most used book on the shelf for science teachers, school administrators, teacher trainers, science curriculum specialists, advocates of hands-on science teaching, and concerned parents.

Learning to Read the Earth and Sky Russ Colson, Mary Colson, 2016-12-01 Is it time to refresh the way you think about teaching Earth science? *Learning to Read the Earth and Sky* is the multifaceted resource you need to bring authentic science and enthusiasm into your classroom. It offers inspiration for reaching beyond prepared curricula, engaging in discovery along with your students, and using your lessons to support the Next Generation Science Standards (NGSS). The book provides examples of Earth science labs and activities you and your students can do as co-investigators; insights into student expectations and misconceptions; plus ideas for inspiring true investigation stories of real scientific discovery translated for classroom consideration; exploration of how you can mentor students as a teacher-scholar; and guidance on how to translate the sweeping core ideas of the NGSS into specific examples students can touch, see, and experience. The authors of *Learning to Read the Earth and Sky* are husband and wife educators who promote science as something to figure out, not just something to know. They write, "It is our hope that readers will find our book short on 'edu-speak' and long on the joy of doing science and full of stories of students, classrooms, scientists, and Earth and sky."

Problem Solving in Geology Sheldon Judson, 2000-02 B Designed to give readers instruction and practice with basic geologic field and lab skills, this exceptionally affordable yet high-quality lab manual/workbook features 68 unique and intuitive exercises covering 19 key geologic topics. The exercises are based on the principles of scientific inquiry and challenge readers to think beyond the activity at hand to the larger questions of applied geologic work. Problems range from the simple to complex, and calculations are based on simple arithmetic. **ROCK EVOLUTION** Minerals and Rocks **MAPPING THE EARTH** Topographic Maps Air Photos Geologic Maps Structures and Earth History **Seismic Reflections Reveal Subsurface Geology** **SURFICIAL PROCESSES AND THE ENVIRONMENT** Landslides Streams Ground Water Glaciation Beaches **PLATE TECTONICS** Earthquakes and Seismic Risk Volcanos and Volcanic Hazards Earthquakes Volcanos and Plate Tectonics Plate Movements **EARTH MATERIALS** Rock

forming Minerals Igneous Rocks Sedimentary Rocks Metamorphic Rocks Common Rocks in the Field For anyone interested in learning geologic field and lab skills **Problems & Principles in Physical Geology** Joseph J. Romano,1982 **Merrill Earth Science** Ralph M. Feather,Susan Leach Snyder,Dale T. Hesser,1995 *Earth Science* ,1987 Essentials of Geology Stanley Chernicoff,Haydn A. Fox,2003 A condensed version of Geology 3e this textbook provides succinct focused explanations of key points ideal for those who require a basic introduction to the field As in the past the Third Edition successfully engages students by concentrating on dynamic geologic processes rather than on rote memorisation of key terms Three themes plate tectonics environmental geology and natural resources and planetary geology appear repeatedly throughout the text to highlight the connections between core concepts Highlights of this third edition include New Text design is more visually appealing and more effective in communicating core concepts of geology to students New Geology at a Glance features use flow charts figures and photos to visually summarise difficult concepts in a succinct manner recognising that many students are visual learners New Coverage of Earth Systems is integrated throughout the text New Highlights Boxes which link applications of the geology being studied to situations that are recognisable to students are now categorised as Environmental Earth System Science or Application Everyday Interest and have been substantially revised New Chapter Summaries are shorter than in previous editions allowing a quicker review New Superior technology package offers both students and instructors a multitude of resources to facilitate learning and teaching Applied Linguistics ,1980

CSE Report ,2006 *Integrating Literature in the Disciplines* Sharon Kane,2020-04-22 The Second Edition of this practical and comprehensive resource offers a multitude of ways to incorporate literature into teaching and learning across a range of disciplines Future and practicing teachers librarians instructional coaches and school leaders can implement the ideas within this text to improve the literacy skills and knowledge of students while also addressing standards and curricular goals of various content areas The new edition recognizes a paradigm shift from content areas to disciplines reflecting the specific ways reading and writing are used in different fields of study Updated with current research and practices the volume recommends and evaluates books in different genres and categories with chapters on informational books fiction biography and memoir poetry and hands on and how to books For every category Kane provides a rationale instructional strategies and author studies as well as lists and descriptions of books related to curricular areas With a wealth of activities and new BookTalks this Second Edition is greatly revised and features expanded attention to technology digital learning diversity and culture Using this text will create opportunities for deep discussions and will stimulate students interest and motivation to read and learn Integrating Literature in the Disciplines helps educators identify books that fit with any subject to enhance the creative and affective dimensions of school life encourages interdisciplinary connections and increases the depth and relevance of lessons It is ideal for professional development and serves as a tool for Readers Advisory to match books with readers throughout the school day and beyond The Publishers' Trade List Annual ,1980 **Technical**

Report ,1991 **Integrating Literature in the Content Areas** Sharon Kane,2017-05-12 This practical accessible resource will help future and practicing teachers integrate literature into their middle school or high school classrooms while also addressing content area standards and improving the literacy skills of their students Two introductory chapters are followed by five chapters that each cover a different genre Chapter 3 Informational Books Chapter 4 Fiction Chapter 5 Biography Autobiography and Memoir Chapter 6 Poetry and Chapter 7 How to and Hands on Books Each genre chapter consists of four parts Part 1 Discusses the genre and how content area teachers can use books within that genre to further content learning and enhance literacy skills Part 2 Offers hands on instructional strategies and activities using literature with activities for use in a variety of disciplines Part 3 Presents individual author studies three or four per chapter with bibliographies and guidelines for using the authors books in content area courses Part 4 Features an annotated bibliography of specially selected children and young adult literature for that genre organized by content area The annotations provide information about the book which can be used to prepare booktalks and teaching ideas for using in a specific content area Altogether these sections contain more than 600 annotated entries tabbed by subject area including art English language arts languages and culture math and technology music PE health science and social studies history *Subject Guide to Books in Print* ,1993 *Essentials of Physical Geology* Anatole Dolgoff,Mary Falcon,1998 **Instructor's Manual with Test Bank to Accompany Meteorology Today** C. Donald Ahrens,1988

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