

# Ch. 9 Plate Tectonics: Study Guide

## Vocabulary

**9.4 Earth's Layered Structure:** crust, p. 233; mantle, p. 234; lithosphere, p. 234; asthenosphere, p. 235; outer core, p. 235; inner core, p. 235;

**9.1 Plate Tectonics:** continental drift, p. 246; Pangaea, p. 246; plate tectonics, p. 254; divergent boundary, p. 255; convergent boundary, p. 255; transform fault boundary, p. 255; ridge, p. 256; seafloor spreading, p. 256; subduction zone, p. 261; trench, p. 261; paleomagnetism, p. 265; hot spot, p. 268

## Reviewing Content

Choose the letter that best answers the question or completes the statement.

- What is the weaker, hotter zone beneath the lithosphere that allows for motion of Earth's rigid outer shell?
  - a. Crust
  - b. Asthenosphere
  - c. outer core
  - d. inner core
- Most of Earth's earthquakes, volcanoes, and mountain building occur
  - a. in the center of continents.
  - b. in the Himalayas.
  - c. at plate boundaries.
  - d. at volcanic island arcs.
- Alfred Wegener is best known for what hypothesis?
  - a. plate tectonics
  - b. seafloor spreading
  - c. continental drift
  - d. subduction
- Complex mountain systems such as the Himalayas are the result of
  - a. oceanic-oceanic convergence.
  - b. hot spots.
  - c. continental volcanic arcs.
  - d. continental-continental convergence.
- What is the type of plate boundary where two plates move together, causing one of the slabs of lithosphere to descend into the mantle beneath an overriding plate?
  - a. oceanic-continental convergent
  - b. Divergent
  - c. transform fault
  - d. continental-continental convergent
- One of the main objections to Wegener's hypothesis of continental drift was that he was unable to provide an acceptable
  - a. rate of continental drift.
  - b. date of continental drift.
  - c. mechanism of continental drift.
  - d. direction of continental drift.
- Which one of the following was NOT used as support of Wegener's continental drift hypothesis?
  - a. fossil evidence
  - b. Paleomagnetism
  - c. the fit of South America and Africa
  - d. ancient climates
- At what type of plate boundary do plates move apart, resulting in the upwelling of material from the mantle to create new seafloor?
  - a. Divergent
  - b. Convergent
  - c. transform fault
  - d. Subduction

Use the diagram below to answer Questions

- What feature is labeled B?
  - a. continental volcanic arc
  - b. a trench
  - c. continental lithosphere
  - d. an ocean ridge
- The process occurring at the location labeled D is
  - a. oceanic lithosphere being created.
  - b. continental lithosphere being created.
  - c. a continental-continental collision occurring.
  - d. oceanic lithosphere being subducted.



# Chapter 17 Plate Tectonics Answers

**Alan H. Strahler, Arthur N. Strahler**



## Chapter 17 Plate Tectonics Answers:

**The Earth Machine** Edmond A. Mathez, James D. Webster, 2004 tells the story of the evolution of our planet and of the science that makes it work With the same exuberance and expertise they brought to the creation of the Hall of Planet Earth co curators Edmond A Mathez and James D Webster offer a guided tour of Earth s dynamic 4 6 billion year history Including numerous full color photographs of the innovative exhibit and helpful easy to understand illustrations the authors explore the major factors in our planet s evolution how Earth emerged from the swirling dusts of a nascent solar system how an oxygen rich life sustaining atmosphere developed how continents mountain ranges and oceans formed and how earthquakes and volcanic eruptions alter Earth s surface Traversing geologic time and delving into the depths of the planet **The Complete Idiot's Guide to the GED 5-Subject Crash Course** Del Franz, Phyllis Dutwin, Richard Ku, Kathleen Peno, Courtney Mayer, 2012-08-07 Each year hundreds of thousands of people who did not finish high school study to take the battery of GED examinations A GED diploma opens up a new level of career education and compensation opportunities for them This crash course helps them get up to speed quickly on the five major subject areas they will be tested on and gives them test taking practice and hints The easy to use Complete Idiot s Guide format distills the information to its simplest and makes it easy to grasp and remember the essential concepts and facts readers must know to pass the GED tests Subjects covered include Language Arts Writing Sentences parts of speech grammar punctuation writing cohesive paragraphs and planning writing and editing essays Social Studies U S history government and civics economics world history and geography Science Scientific method health and environment biology chemistry physics and earth and space science Language Arts Reading Fiction poetry drama business writing and nonfiction prose Mathematics Number sense arithmetic measurement geometry statistics and probability and algebra functions The book also includes a half length practice test for each of the five subjects as well as extensive in chapter practice sets and answer keys An introductory chapter covers test taking hints and strategies **Scientific American Biology for a Changing World** Michele Shuster, Janet Vigna, Gunjan Sinha, Matthew Tontono, 2011-02-25 To view sample chapters and more information visit [www.whfreeman.com](http://www.whfreeman.com) SABiologyPreview All of us involved in science education understand the importance of scientific literacy How do we get the attention of a nonscientist And if we can get it how do we keep it not only for the duration of the course or the chapter in a textbook but beyond How do we convey in our courses and our textbooks not just what we know but also how science is done These are the challenges we hope to address with our new series of textbooks specifically for the nonscientist With this series W H Freeman and Scientific American join forces not just to engage nonscientists but to equip them critical life tools **Dynamic Earth** Michael M. Kimberley, 2005 DVD ROM has same title as book **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 **Prentice-Hall Earth**

**Science** Charles R. Coble,1986 *Physical Geology* Charles Fletcher,2017-12-15 *Physical Geology The Science of Earth* 3rd Edition explores the foundational introductory Physical Geology topics using recent discoveries in geologic research innovative pedagogy and a stunning art program The challenge of critical thinking and the high interest of modern subject matter taken from today's headlines are used to build on fundamental geologic principles and show students how they can take geology and apply it to their daily world **Study Guide to accompany The Sciences: An Integrated Approach, 4th Edition** James Trefil,Robert M. Hazen,2003-05-22 Work more effectively and gauge your progress along the way Designed to be used alongside Trefil's *The Sciences* 4th Edition this Study Guide contains many elements that foster student success Included are chapter reviews learning objectives key chapter concepts and key concept charts The ties between science and math are reinforced with key formulas and equations Links to scientists and their findings are outlined to help improve your comprehension of key subject area concepts *The Sciences* 4th Edition integrates major concepts from physics chemistry astronomy earth sciences and biology to help anyone become science literate Even readers with little or no science background will find this unique book an indispensable guide to understanding the latest headlines controversies and scientific developments The new edition keeps pace with the dynamic nature of the sciences by incorporating the most up to date discoveries in all five disciplines *Modern Physical Geography, Study Guide* Alan H. Strahler,Arthur N. Strahler,1992-01-17 This Fourth Edition of a well established text on physical geography provides rigorous coverage of the topic at the undergraduate level It includes a full color art program and increased attention to environmental issues

**Study Guide for Physical Geology, Geo 1001 (T451-W485)** Robert Evan Sloan,E. C. Alexander (Jr.),1985 Science Explorer Physical Science Michael J. Padilla,Ioannis Miaculis,Martha Cyr, *Earth's Dynamic System* Hamblin,1998

**The Sciences, Study Guide** James Trefil,Anthony J. Gaudin,Robert M. Hazen,2000-11-24 *The Sciences An Integrated Approach* 3e is the only text on the market for the integrated science course It integrates physics chemistry astronomy earth sciences and biology for students with little or no science background The new third edition builds on the successful previous edition by incorporating changes that meet reform curriculum guidelines Given the dynamic nature of the science disciplines covered in Trefil's text updated content is critical The new third edition has thoroughly updated content throughout bringing the most up to date discoveries to the students in all five disciplines its broad approach that covers such a variety of the science disciplines updated content is crucial This revision has several significant changes URL's are included at the ends of each chapter many of the Science News boxes are updated to show hot topics **Geology For Dummies** Alecia M. Spooner,2020-03-17 Get a rock solid grasp on geology *Geology For Dummies* is ideal reading for anyone with an interest in the fundamental concepts of geology whether they're lifelong learners with a fascination for the subject or college students interested in pursuing geology or earth sciences Presented in a straightforward trusted format and tracking to a typical introductory geology course at the college level this book features a thorough introduction to the study of earth its materials

and its processes Rock records and geologic time Large scale motion of tectonic plates Matter minerals and rocks The geological processes on earth s surface Rock that geology class with Geology For Dummies **The Physical Universe** Konrad Bates Krauskopf,Arthur Beiser,1986 This is a revised text on introductory courses in physical science with concise presentations of the essentials of physics chemistry geology and astronomy *Science Interactions* ,1995 *Reinforcement* ,1999\* *Putnam's Geology* William Clement Putnam,Edwin E. Larson,1982 Highly acclaimed as an outstanding contribution to its field the fourth edition of this authoritative text gives comprehensive up to date coverage of both the classical and modern concepts of physical geology providing an ideal introduction to the subject Distinctive in its visual appeal the text makes exceptional use of some 430 unusually fine photographs many by noted photographers as well as some of the best work from the U S Geologic Survey collection **Earth Science** Eric W. Danielson,1986 Essentials of Physical Geology Anatole Dolgoff,Mary Falcon,1998

Chapter 17 Plate Tectonics Answers: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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solution simple harmonic oscillation equation is  $y = a \sin(\omega t + \phi_0)$  or  $y = a \cos(\omega t + \phi_0)$  example 10.7 show that for a simple harmonic motion the phase difference between a

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no klasifikasi definisi 1 trimester pertama dimulai dari terjadinya kehamilan sampai dengan usia kehamilan 12 minggu 2 trimester kedua sejak usia kehamilan 13 minggu sampai

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klasifikasi usia kehamilan perawatan bayi risiko tinggi kesehatan reproduksi wanita di sepanjang daur kehidupan ade tyas mayasari 2021 03 10 buku ini membahas tentang

**faktor faktor yang mempengaruhi kejadian hiperemesis** - Nov 28 2021

**bab ii tinjauan pustaka 2 1 undang undang umsurabaya** - May 03 2022

dicapai pada usia kehamilan 20 minggu atau berat janin 500 gram varney 2006 2 1 2 klasifikasi menurut varney 2006 istilah paritas dibagi menjadi tiga macam antara lain a

**klasifikasi usia kehamilan oldcove com** - Dec 30 2021

perkembangan ibu dan janin pada tiap trimester - May 15 2023

2 klasifikasi usia kehamilan menurut karjatin 2016 kehamilan dibagi menjadi tiga yaitu a trimester kesatu dimulai dari 0 sampai 12 minggu kehamilan b trimester kedua dimulai dari

*ii tinjauan pustaka 2 1 paritas universitas lampung* - Jan 31 2022

oct 20 2023 saat bayi memasuki usia 6 bulan ia harus diberikan makanan pendamping asi atau mpasi ya moms mpasi yang bergizi penting untuk memenuhi kebutuhan nutrisi harian

**bab ii tinjauan pustaka a 1 definisi kehamilan poltekkes** - Mar 13 2023

oct 7 2023 foto pusing saat hamil shutterstock com selain melihat tabel usia kehamilan tersebut ada cara cara lain yang bisa dilakukan 1 menghitung periode menstruasi terakhir

*berapa batas usia ideal hamil simak penelitian berikut ini* - Oct 08 2022

1 menggunakan kalkulator kehamilan online kalkulator kehamilan online akan mudah untuk digunakan dan diakses oleh banyak orang untuk sekedar mengetahui usia kehamilan kamu

**apa perbedaan kehamilan pada usia 20 30 dan 40 tahun** - Aug 06 2022

dalam generasi yang solid dikatakan bahwa usia baik baik saja untuk kehamilan dan persalinan pada usia 20 tahun hingga 30 tahun meskipun kematian dalam persalinan dikatakan berada

*bab ii tinjauan pustaka a usia kehamilan 1 klasifikasi - Nov 09 2022*

may 26 2018 rp 79 500 boleh dibilang pada usia 30 35 tahun merupakan masa masa transisi kehamilan pada usia ini harus dijaga dengan baik pastikan kondisi tubuh dan

*bab ii tinjauan pustaka 2 1 konsep dasar kehamilan - Jun 16 2023*

buku kia hal 28 c hindari menyentuh mata hidung dan mulut dengan tangan yang belum dicuci d sebisa mungkin hindari kontak dengan orang yang sedang sakit pedoman bagi ibu

*cara menghitung tabel usia kehamilan dan lingkar perut - Dec 10 2022*

fertilisasi sampai kelahiran bayi kehamilan normal biasanya berlangsung dalam waktu 40 minggu usia kehamilan tersebut dibagi menjadi 3 trimester yang masing masing

*bab ii tinjauan pustaka 2 1 definisi berat bayi lahir - Mar 01 2022*

sep 29 2022 berdasarkan 167 responden didapatkan hasil usia ibu hamil tidak beresiko 20 35 tahun sebanyak 101 orang 60 5 paritas 2 anak sebanyak 104 orang 62 3 jarak

*kehamilan tanda pemuahan dan perkembangan - Jan 11 2023*

usia 21 35 tahun adalah masa di mana ibu hamil memiliki risiko kesehatan paling rendah secara umum masa masa ini disebut sebagai waktu ideal untuk hamil dan melahirkan bagi

*cara menghitung usia kehamilan dengan benar okadoc - Jul 05 2022*

hidup di luar kandungan dengan berat badan kurang dari 1000 gram atau usia kehamilan kurang dari 28 minggu manuaba 2010 dapat disimpulkan bahwa abortus adalah

*bab ii tinjauan pustaka poltekkes bandung - Jul 17 2023*

7 bab ii tinjauan pustaka 2 1 konsep dasar kehamilan 2 1 1 pengertian kehamilan kehamilan adalah suatu masa yang dimulai dari konsepsi sampai lahirnya janin lamanya

*bab ii tinjauan pustaka a konsep dasar kehamilan 1 - Jun 04 2022*

1 bayi prematur preterm kurang bulan usia kehamilan kurang dari 37 minggu 259 hari 2 bayi cukup bulan aterm usia kehamilan antara 37 dan 42 minggu 259 293 hari 3 bayi

*bab ii tinjauan pustaka 2 1 kehamilan 2 1 1 definisi - Sep 07 2022*

hari 40 minggu dan tidak lebih dari 300 hari 43 minggu pembagian kehamilan dibagi dalam 3 trimester trimester i dimulai dari konsepsi sampai tiga bulan 0 12 minggu trimester ii