

# 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. 248; Pangaea, p. 248; 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

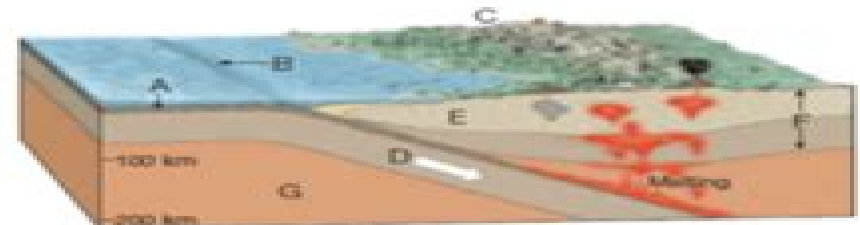
## Reviewing Content

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?  
**b. a trench**  
 a. continental volcanic arc  
 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.



# Plate Tectonics Answer Key

**John Edwards**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Plate Tectonics Answer Key:**

Plate Tectonics Answer Key: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. Plate Tectonics Answer Key : Colleen Hoover's "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 expertly 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 captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Plate Tectonics Answer Key : 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 top-selling 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 gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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