

Activity 1.1: Recognizing Plates and Plate Boundaries

Use Figure 1 and Figure 2 and your lecture notes to complete the following:

- What is the name of the plate on which the United States resides? The North American Plate
- Does this plate consist of continental lithosphere, ocean lithosphere, or both? Both
- Where does the lithosphere of the Atlantic Ocean form? It is formed at the mid-atlantic ridge
- What kind of plate boundary occurs along the west coast of South America? Convergent boundary
- Is the west coast of Africa a plate boundary? Yes it is considered a divergent boundary.
- What is the rate of plate motion of the Nazca Plate near the East Pacific Rise? 13.4
- What is the rate of plate motion of the African Plate near the Mid-Atlantic Ridge? 2.5-3.0
- What is the rate of plate motion of the Pacific Plate near the San Andreas Transform? 5.5
- Using Figure 1, do transform margins and divergent margins have deep, intermediate, or shallow focus earthquakes? Shallow focus earthquakes
- Which plate margin has deep focus earthquakes? Convergent plate margin
- In lecture, the zone of earthquakes in the subduction zone is called the _____ zone.

Activity 1.2: Evidence from the Fit of Continents

As far back as 500 years, cartographers noted that the coastlines of South America and west Africa looked as if they might fit together once in a larger continent (Figure 3).

- Sketch the shorelines of South America and Africa in Figure 3 on separate pieces of tracing paper. Cutout out your tracings using scissors. Rearrange the continents so that they fit snugly without overlapping or leaving large gaps. Take a pic of your coastline fit. You will include this pic in your lab submittal.
- Note where there are problem areas in your coastline fit.

When connecting the cut outs, the problem areas are the gaps and overlaps of the coastlines of South America and Africa. The continental crust extends well beneath the continental shelf areas to the continental slope.

- If Africa and South America rifted tens of millions of years ago, would their shorelines be the best indicators of the shapes of the original pieces or the true extent of either continent?

No, the current shorelines of Africa and South America are not indicators of the continents when they were rifted apart, because of some gaps, overlaps, and mismatches.

Explain what factors other than rifting and sea-floor spreading could have modified the shape of the current shorelines.

Erosion is caused by longshore currents and the erosion products are deposited in another place. So the place which is eroded and the place where deposition occurs both changes in their shape. Sometimes erosion and deposition both occur due to wind. So due to repeated erosions and depositions, the shapes of the current shorelines could have been modified.

- In Figure 3, what are the submerged light blue colored areas at the edges of the continents called? Continental Shelves

e. Trace the outlines of the continents again, this time using the edges of their continental shelves rather than the shorelines. Rearrange the continents with their continental shelves and take a pic of your reconstruction (you will also include this pic in your submittal). Which reconstruction produced the best fit? South America and Africa Continental shelves produced the best fit.

- Based on this evidence, what is the true edge of a continent? The edge of a continental shelf and not the coastline.

g. When you fit the continents together, you could rotate them however you wished. However, Figure 3 also

Plate Tectonics Lab Manual Answers

Jake Bernstein



Plate Tectonics Lab Manual Answers:

Plate Tectonics Lab Manual Answers: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : 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 masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating 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. Plate Tectonics Lab Manual Answers : 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 spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling 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 captivating 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 masterful and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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