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## Chapter 9 plate tectonics answers

Chapter 9 Answer Key Study Guide My Notebook Responses will vary, but may include the main thoughts from the summary or 1 main idea from each reading (3). The answers will vary, but students should have 3 useful vocabulary in 3 different sentences that make sense. The United States is located on the North American plate.

Guided reading 9.1 History boards of tectonic Pangaea mid-oceanic ridge geophysicist confirm the 9.2 Plate Boundaries and effects of the boundary of the distinct Ocean Basin 9.3 Plate Boundary and Rock Cycle explains the formation of ancient Let's Review Check your understanding reading 9.1 Heat from the depth of the earth. Scientists believe the Earth was made of solid layers. Scientists only managed to gather evidence of the ocean floor by lowering the weights on the cables. Later, sonar was used to map the ocean floor. The answer is: The continent would move with tectonic plates. As the tectonic plate moves towards other plates carries the continent with it. Tectonic plates must be destroyed at certain boundaries of the plates, such as deep ocean trenches. Deep ocean trenches can be found on the boundary board. The continent would fall apart. Responses may vary. Reading 9.2 Different boundaries of the mountain and deep ocean trenches. Both areas will have volcanic activity. In the middle of the ocean the ridge of volcanic activity occurs as hot material from the mantle is drawn upwards. The deep ocean trench volcanic activity occurs as layers of rock containing salt water are drawn into the Earth and heated. Salt water causes chemical changes and melts layers of rock, these layers flow upwards to cause volcanoes. Plate tectonic describes the way some kinds of plate boundaries involve the creation of new tectonic plates and mountains. Different boundaries include the creation of new tectonic plates. Convergent boundaries include the creation of mountains. Plate boundaries are the site of frequent earthquake activity because the plates stick together and then slide suddenly, triggering an earthquake. Reading 9.3 Uniformitarianism says that events that have occurred in the past will occur in the future. Observations that are made on the beach may indicate how events will occur in similar situations in the future. Responses may vary. Sample response: Computers and CAT scanning technology. Responses may vary. Sample response: The rock cycle is driven by pressure and heat. Sedimentary rock is formed as pieces of existing rock are broken down and then cemented together. Metamorphic rock forms like existing layers of rock change chemically. Igneous rock forms as molten rock cools. There are many ways to form any rock. Responses may vary. Sample response: Sedimentary rock will form under low pressure and low temperature. Conversion of rock may require high pressure or high temperature. Igneous rock requires a high temperature or high pressure to the point where the rock melts. rock rocks found on the earth's surface because they are formed from existing rocks that have been broken down. If they move too deep in the ground sedimentary rocks become other types of rocks. Responses may vary. Sample response: A few million years ago there was a small clam. The clam died and its shell sank to the bottom of the ocean. Eventually, the shell became part of the sedimentary rock limestone. Next to the limestone was drawn deep into the ground and turned into marble. Eventually, the marble was dug up and carved into a vase. The answers are: If the pressure is increased sedimentary rock turns into a transformation of rock. Metamorphic rock turns into igneous rock. Solve It! s.227 Responses may vary. Sample response: Newer material closer to the edges of the ocean's central ridges suggests a new crust is forming. Meanwhile, a pattern of gradually older material at distances from the middle ridge of the ocean suggests that the crust moves as soon as it forms. Solve It! p.243 Sedimentary rock would contain fossils. Igneous rock would likely be found near the volcano. Responses may vary. Sample response: Sedimentary rock would probably be found in the Grand Canyon. The metamorphic rocks of the igneous rocks are probably located near the valley of the crack. These are different boundaries. Metamorphic rocks are likely to be close to convergent boundaries because these areas experience intense pressure from tectonic motion. Connectivity: Seismic Engineering Two tectonic plates slipped past each other, causing an earthquake in 2010. Collapsing structures, fires and contaminated water Responses may vary. Sample answer: Seismic engineers can design earthquake resistant building designs. Activity: Relative and Absolute Dating Relative dating is a process used to place rocks and events in the order in which they occur. Absolute dating is used to determine the more accurate age of the rock. half Chapter 9 Review Vocabulary Reading 9.1 Pangaea Continental Drift Plate Tectonic Plate Reading 9.2 Continental Rifting Subduction Crest Push: Plate pull ocean basin Reading 9.3 rock cycle igneous sedimentary metamorphic sediment concepts Reading 9.1 Earth's internal heat and convection currents provide the energy needed to move the plates. Sample response: Convergent border: mountains; different boundaries: the ridge of the middle ocean; Transformation of the fault line: The fault (with associated earthquakes) Ridge-Earth model began to be challenged because data from earth's echo sounding oceans indicated that there were continuous mountain ranges at the ocean floor. In addition, scientists had difficulty explaining the appearance of composite layers of rock in the Alps. These composite layers indicated the movement of the Earth's crust, so it could not be rigid. Reading 9.2 Responses may vary. Sample response: The Pacific plate is surrounded by subduction zones. Points A, B and C are all subduction zones in which The board is forced under other tectonic plates. Composite volcanoes form when the ocean plate is subsoiled beneath the continental plate. Therefore, the presence of composite volcanoes indicates a nearby boundary of the convergent plate. Reading 9.3 These rocks formed from sediment eroded from the Rocky Mountains and deposited rivers emptying into the Gulf of Mexico begin about 60 million years ago. Mathematics and Writing Skills Reading 9.1 Sample Answer: Alexander von Humbolt died 21 years before Wegener was born. He was an observer and noticed that the continents of South America and Africa seemed to fit together. For this reason, he might be willing to support Wegener, but without a plausible explanation of how continental drift could work and evidence for it, von Humbolt would have to agree with other scientists who rejected the theory. Reading 9.3 James Hutton made this statement. He is considered the father of modern geology because he used his observation of layers of rock and current processes to find that the Earth must be millions of years old (not just tens of thousands of years old). Today, modern science has shown that Hutton is right. Earth is actually about 4.6 billion years old. Igneous rock can become a rock transformation if exposed to intense heat and pressure in the subduction zone. An example of the metamorphic rock that was once igneous rock is gneiss. The rock cycle has been in action on Earth for almost the period that the Earth exists. The rock cycle recycles rocks so that it's hard to find rocks that are as old as Earth itself. Test Practice Reading 9.1 Reading 9.2 Reading 9.3 Project-Deep Ocean Exploration Students can find information on the latest in deep ocean exploration on the following websites: Woods Hole Oceanographic Institution and Science News. In addition to the activities of scientists, the film director, James Cameron began turning his attention to exploring the deep ocean. In 2012, he travelled solo within 10,990 meters to the Mariana Trench, the deepest part of the ocean. Java Game: Flashcards, matching, concentration, and word search. AB geologists who study the forces that shape the Earth's constructive forces build into mountains and land destructive forces fun off mountains and other features on earth's crust rocks, which forms the earth's outer skin sheath of hot rock beneath the crust of the lithospheric layer of the upper part of the shell and the lower crust asthenospheresoft layer of mantle, conventional currents here outer core molten metal around the inner core inner core of the inner core of the sphere of solid iron and nickel radiation transfer heat electromagnetic waves conducting heat transmission through direct contact with particles of matter convection temperature transfer due to movement heated fluids Alfred Wegener developed the idea of the continent continental drift Pangaeaasuper continent, one continental drift theory, which says that continents are slowly moving above the Earth's surface Evidence supporting Wegener's theory from the mainland, from fossils, and from climate Why scientists rejected Wegener's theory He could not explain how continents could move in the middle of the ocean ridge's longest mountain chain, beneath the seabed of the oceans is spreading a process that adds new material to the process of subsection of the ocean floor, which sinks the ocean floor under the deep-sea ditch plates of part of the lithosphere which are divided into pieces that fit tightly together the board tectonic theory, which states that pieces of the Earth's lithosphere are in constant slow motion and break in the Earth's crust to transform the boundary point where two slabs slip oast each other's distinct boundaries instead of where two plates move apart convergent boundaries instead of where two plates meet or collide soil subsidizing occurs when soil falls due to geological process or human activity activity

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