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## The earth' s layers questions worksheet answers

As Andrija Mohorovicic discovered that the Earth's crust is made of rock less dense than the mantle. By studying earthquake waves. The waves moved at different speeds and at different angles through the different layers. Write in your own words the definition of discontinuity. Discontinuity is the boundary between the layers of the Earth. Name the four layers of earth in order from the outside to the center of the Earth.1.Crust 2. Mantle 3. Outer core 4. Inner core What makes the mantle flow? The mantle flows due to convection currents that are caused by very hot material in the mantle that rises, cools and then sinks. This circular pattern makes the mantle flow. What are the two main metals that make up the outer and inner core? Nickel and Iron Describe in their own words how the layers of the Earth formed. Card 2 The four layers will help you. As the Earth cooled the denser and heavier materials sank in the middle of the Earth. Lighter materials rose to the top. This material was made mainly of rock. The rock forms the Earth's crust. Denser rock that constitutes the mantle. The denser materials, iron and nickel, constitute the inner and outer core. In his own words explain what continental drift theory says. Earth's plates move very slowly, 1-4 inches a year, through convection currents emitting from the mantle. These plates have been moving for millions of years and continue to move today. As Alfred Wegener tried to prove that the continents of Africa and South America were connected once. Alfred Wegener discovered that magnetic bands on rocks in South America did not point to the north pole as they should. If these rocks were moved to the position that Wegener thought they were created then they pointed to the north pole. It also coincided with rocks from Africa and South America for mineral content and age. How did the ancient Japanese explain the earthquakes? The Japanese explained that the earthquakes were produced by a giant catfish called Namazu. This catfish lived beneath the earth's surface and was shaking very violently when it was not controlled by the god Kashima. As the ancient Romans explained the presence of volcanoes. Vulcan, the god of arms, used the volcanoes off the coast of the Roman Empire as his forge. Discussion questions What causes mountain construction? The mountains are formed from the movements of Earth's plates. As the plates crash into each other they push the bark upwards into the mountains. What is the difference between how the folded mountains and the mountains of of blogs. The folded mountains are formed in roller coasters as formations. The layers are bent but not broken. When mountains of block fault form, the layers are pushed up and broken into high sharp peaks and valleys. How do the mountains of the dome form? Dome mountains form when earth's layers do not break or fold are pushed up in the form of a rounded dome. In his own words explain what happens in a subduction zone. Two plates join, one that cancels the other in a subduction area. The ocean plate, which is thinner and denser, is driven under the continental plate and mantle. A deep ocean trench occurs in the subduction zone. In his own words explain what happens on a ridge of the middle ocean. Two plates are separated with magma that ends and fill the void with newly produced bark. These scattering plates are making the oceans wider and wider, while subduction zones are making the oceans smaller and destroying the ancient crust. In a subduction area what makes magma increase? The oceanic crust and upper layer of the mantle melt as it drives into the mantle. The oceanic crust is not as dense as the mantle. Because this material is less dense, it will go up. In order to continue enjoying our place, we ask you to confirm your identity as a human. Thank you very much for your cooperation. You can create printable tests and worksheets from these Earth layers questions! Select one or more questions using the check boxes above each question. Then click adding selected questions to a test button before moving on to another page. Previous page 1 of 16 next page previous page 1 of 16 next