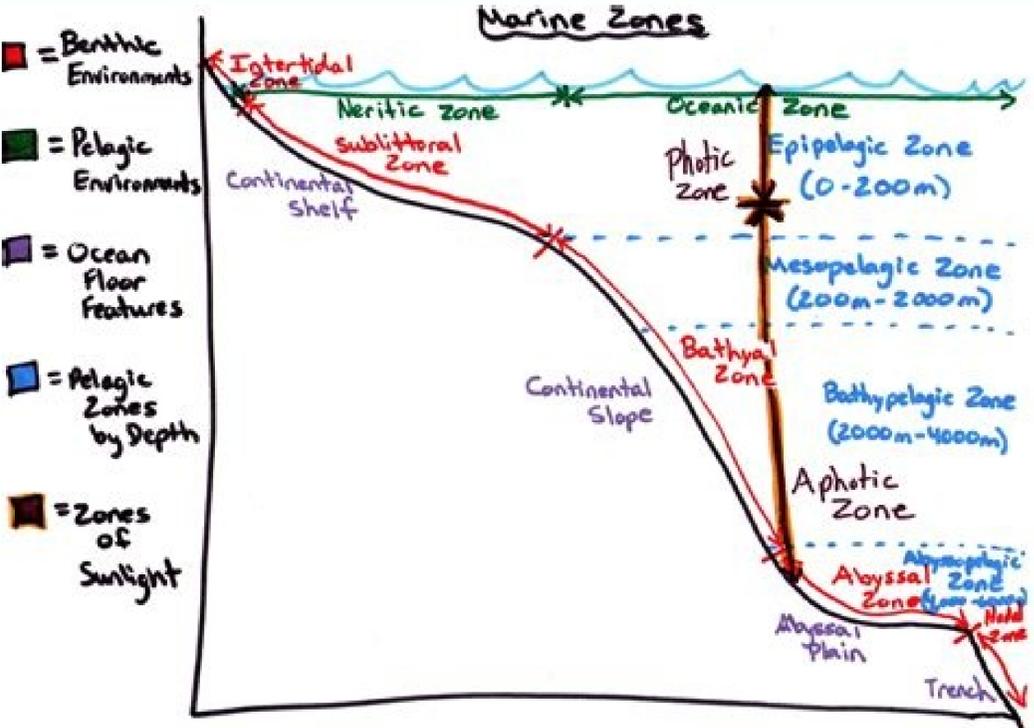


I'm not robot!



My earth's layers foldable answer key.

The Earth is composed of four different layers. Many geologists believe that as the Earth cooled the heavier, denser materials sank to the center and the lighter materials rose to the top. Because of this, the crust is made of the lightest materials (rock- basalts and granites) and the core consists of heavy metals (nickel and iron). The crust is the layer that you live on, and it is the most widely studied and understood. The mantle is much hotter and has the ability to flow. The Outer and Inner Cores are hotter still with pressures so great that you would be squeezed into a ball smaller than a marble if you were able to go to the center of the Earth!!!!!! The Earth's Crust is like the skin of an apple. It is very thin in comparison to the other three layers. The crust is only about 3-5 miles (8 kilometers) thick under the oceans (oceanic crust) and about 25 miles (32 kilometers) thick under the continents (continental crust). The temperatures of the crust vary from air temperature on top to about 1600 degrees Fahrenheit (870 degrees Celsius) in the deepest parts of the crust. You can bake a loaf of bread in your oven at 350 degrees Fahrenheit, at 1600 degrees F. rocks begin to melt. The crust of the Earth is broken into many pieces called plates. The plates "float" on the soft, plastic mantle which is located below the crust. These plates usually move along smoothly but sometimes they stick and build up pressure. The pressure builds and the rock bends until it snaps. When this occurs an Earthquake is the result! Notice how thin the crust of the Earth is in comparison to the other layers. The seven continents and ocean plates basically float across the mantle which is composed of much hotter and denser material. The crust is composed of two basic rock types granite and basalt. The continental crust is composed mostly of granite. The oceanic crust consists of a volcanic lava rock called basalt. Basaltic rocks of the ocean plates are much denser and heavier than the granitic rock of the continental plates. Because of this the continents ride on the denser oceanic plates. The crust and the upper layer of the mantle together make up a zone of rigid, brittle rock called the Lithosphere. The layer below the rigid lithosphere is a zone of asphalt-like consistency called the Asthenosphere. The asthenosphere is the part of the mantle that flows and moves the plates of the Earth. The mantle is the layer located directly under the sima. It is the largest layer of the Earth, 1800 miles thick. The mantle is composed of very hot, dense rock. This layer of rock even flows like asphalt under a heavy weight. This flow is due to great temperature differences from the bottom to the top of the mantle. The movement of the mantle is the reason that the plates of the Earth move! The temperature of the mantle varies from 1600 degrees Fahrenheit at the top to about 4000 degrees Fahrenheit near the bottom! Convection Currents The mantle is made of much denser, thicker material, because of this the plates "float" on it like oil floats on water. Many geologists believe that the mantle "flows" because of convection currents. Convection currents are caused by the very hot material at the deepest part of the mantle rising, then cooling, sinking again and then heating, rising and repeating the process over and over. The next time you heat anything like soup or pudding in a pan you can watch the convection currents move in the liquid. When the convection currents flow in the mantle they also move the crust. The crust gets a free ride with these currents. A conveyor belt in a factory moves boxes like the convection currents in the mantle moves the plates of the Earth. The core of the Earth is like a ball of very hot metals. (4000 degrees F. to 9000 degrees F.) The outer core is so hot that the metals in it are all in the liquid state. The outer core is located about 1800 miles beneath the crust and is about 1400 miles thick. The outer core is composed of the melted metals nickel and iron. The inner core of the Earth has temperatures and pressures so great that the metals are squeezed together and are not able to move about like a liquid, but are forced to vibrate in place as a solid. The inner core begins about 4000 miles beneath the crust and is about 800 miles thick. The temperatures may reach 9000 dgrees F. and the pressures are 45,000,000 pounds per square inch. This is 3,000,000 times the air pressure on you at sea level!!! Answer the following questions on a sheet of paper with your partner. If you need to look back to find the answers use the page titles located directly under the questions to help you. When you finish the questions click on the Earth icon to return the program to the beginning. 1. Name the four layers of the Earth in order from the outside to the center of the Earth. 2. What causes the mantle to "flow"? 3. What are the two main metals that make up the outer and inner core? 4. Describe in your own words how the Earth's layers were formed. "The Four Layers" will help you. Modeling Earth's layers, mantle, crust, inner core, outer core, and teaching tectonic plates has never been easier for you or more fun for your students! This full earth's layers and basic geology lesson, was created for upper elementary and middle school students and is great practice to help students to understand the concept of earth's layers and their characteristics, tectonic plates, Pangaea, and basic geology. This assignment is hands on and interactive. Students learn via creating and decorating a folding earth that functions as a mini book that describes the layers of the earth. Highly engaging, high level thinking activity / lab. Perfect for classroom that utilize interactive notebooks. Includes "I will" and "We will" daily goals that teachers may post. "I will" and "we will" goal statements are aligned with the fundamental five method of teaching, but will work for any teacher who posts daily class goals or just wants to impress any administrators who walk through their classrooms! WHAT YOU GET: Earth's layers foldablePowerpoint guiding students through assembling the foldable Powerpoint and PDF versions. Useable even without Microsoft PowerPoint! Teacher guide with lesson tips that have worked for my students A printable perfect for interactive notebooks covering Earth's layersKWL chart - can be used as a class starter and an exit ticketClass objectives, perfect for posting on your whiteboard "Four truths and three lies" worksheet based on "Bill Nye the Science Guy: Earth's Layers" Concepts covered include crust, mantle, inner core, outer core, Pangaea, atmosphere, lithosphere, earthquakes, and volcanoes. High level thinking strategies and differentiated activities allow for different learning styles. KWL chart (quick writing assignment) allows for ELA common core tie ins. All teacher keys with all answers and detailed teaching tips are included at no additional cost! Approximately three to four class periods in length. Could easily be modified to be shorter or longer depending on the needs of specific classes. As a point of reference I teach a 50 minute class. You may also be interested in these other fun and engaging science lessons: Photosynthesis and Cell Respiration Skittles Lab- Cells and Organelles "Clue" Style Mystery Activity- Physical and Chemical Changes S'Mores Lab- Elements and the Periodic Table Mystery Activity© Mister Science. Use for a single classroom and/or teacher. Additional copies must be purchased if you plan to share with other teachers. No part of this resource maybe posted on a blog (personal or commercial), webpage/site, server, or other location that is accessible by multiple people without express written permission from the copyright owner. Violations of this notice are subject to the penalties of the Digital Millennium Copyright Act (DMCA). Thank you for your participation!

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