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Plate tectonics (from
the Late Latin:
tectonicus, from the
Ancient Greek:
τεκτονικός, lit.
'pertaining to building')
is a scientific theory
describing the large-

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scale motion of the plates making up Earth's lithosphere since tectonic processes began on Earth between 3.3 and 3.5 billion years ago. The model builds on the concept of continental drift, an idea developed during the first ...

Plate tectonics - Wikipedia

In geology, a rift is a linear zone where the

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lithosphere is being pulled apart and is an example of extensional tectonics.. Typical rift features are a central linear downfaulted depression, called a graben, or more commonly a half-graben with normal faulting and rift-flank uplifts mainly on one side. Where rifts remain above sea level they form a rift valley, which may be filled by water.

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Rift - Wikipedia

4.1 Plate Tectonics and Volcanism The relationships between plate tectonics and volcanism are shown on Figure 4.3. As summarized in Chapter 3, magma is formed at three main plate-tectonic settings: divergent boundaries (decompression melting), convergent boundaries (flux melting), and mantle

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plumes

(decompression melting).

4.1 Plate Tectonics and Volcanism - Physical Geology

(1) Generalization of reality. (2) System describing how a phenomenon functions.

(3) Mathematical representation of a system from which predictions or inferences can be made. Moho

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Discontinuity The lower boundary of the crust.

Glossary of Terms:

M - Physical

Geography

Most of the mantle is within the field of diamond stability. The crust, which is normally too thin (usually less than 40 km thick) to lie within this field, can do so only if it has been thickened by the geologic processes related to plate

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tectonics. Yet diamonds are very rare because the mantle has a relatively low abundance of carbon.

Recent Advances in Understanding the Geology of Diamonds ...

Crust and the upper mantle c. Oceanic crust and continental crust d. Upper mantle 4. Miners dig into the Earth in search for precious rocks and

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minerals. In which layer is the deepest explorations made by miners? a. Crust c. Mantle b. Inner core d. Outer core 5. How do you compare the densities of the Earth's crust, mantle, and core? a.

G10 Science :Earth and Space -Learner's Module 1st Quarter

1.2 A View of Earth 4. Geosphere • Based on compositional

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Answer
differences, it consists of the crust, mantle, and core. - Crust—the thin, rocky outer layer of Earth. - Mantle—the 2890-kilometer-thick layer of Earth located below the crust. - Core—the innermost layer of Earth, located beneath the mantle.

Chapter 1

Introduction to Earth Science.ppt

It is less dense than the material of the

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Earth's mantle and thus "floats" on top of it. Continental crust is also less dense than oceanic crust, though it is considerably thicker; mostly 35 to 40 ...

Continental crust - ScienceDaily

Measuring the carbon (C) concentration in mantle-sourced magmas 1,2,3 (Fig. 1) is, together with melting experiments 4,5,6 and the recovery

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Answers

of mantle-derived diamonds 7 and xenoliths 8, the main ...

Carbon concentration increases with depth of melting in ...

Narrow mantle upwellings, or plumes, are an integral part of Earth's convection system, yet many controversies have surrounded mantle plumes since the idea was first invoked

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1. Where the plate ...

Mantle plumes and their role in Earth processes | Nature

...

The outermost layer of the lithosphere consists of loose soil rich in nutrients, oxygen, and silicon. Beneath that layer lies a very thin, solid crust of oxygen and silicon. Next is a thick, semi-solid mantle of oxygen, silicon, iron, and

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magnesium. Below that is a liquid outer core of nickel and iron.

Earth's Spheres

crust. What is the inside of Earth like? Just below the crust is the mantle. It is made up of hot rock. Next comes the outer core. The inner core is the very center of Earth. Both the outer and inner cores are made of two minerals—iron and nickel. Reading

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Passages With Graphic
Organizers to Model &
Teach Key
Comprehension Skills:
Grades 2-3 ©

**Short Reading
Passages With
Graphic Organizers**

The viscosity of olivine, the volumetrically dominant mineral in the upper mantle, decreases when it incorporates water [7,8,9], and when small fractions (0.03-0.04) of

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melt are present [10,11,12]. An increase in temperature decreases the strength of olivine and pyroxenes (the main minerals in the upper mantle) (e.g., [1,13,14]).

Formation of Ultramylonites in an Upper Mantle Shear Zone ...

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Go.hrw.com

Earth definition, the planet third in order from the sun, having an equatorial diameter of 7,926 miles (12,755 km) and a polar diameter of 7,900 miles (12,714 km), a mean distance from the sun of 92.9 million miles (149.6 million km), and a period of revolution of 365.26 days, and having one

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satellite. See more.

Earth Definition & Meaning | Dictionary.com

Geochemistry,
Geophysics,
Geosystems publishes
original research
papers on Earth and
planetary processes
with a focus on
understanding the
Earth as a system.

Geochemistry, Geophysics,

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**Geosystems - Wiley
Online Library**

That means the next layer, the mantle, doesn't even start until nearly 25 miles (40 kilometers) below the surface and continues for another 1800 miles. That means that despite the impressive nature of the Kola Superdeep Borehole, it still only penetrates about a third of the Earth's crust and 0.2% of the entire distance

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to the center of the ...

Answers

**How Deep is the
Deepest Hole Ever
Dug? | Everyday
Einstein**

The Bering Strait is a waterway that separates Russia from North America. It lies above the Bering Land Bridge (BLB), also called Beringia (sometimes misspelled Beringea), a submerged landmass that once connected

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the Siberian mainland
with North America.

While Beringia's shape

and size while above

water is variously

described in

publications, most

scholars would agree

the landmass included

the ...

The Bering Land

Bridge Between

Russia and North

America

P.M. Schlosser, ... M.

Medinsky, in

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Comprehensive
Toxicology, 2010

1.04.1.14 Partition Coefficient. A partition coefficient is the ratio of the concentration of a substance in one medium or phase (C_1) to the concentration in a second phase (C_2) when the two concentrations are at equilibrium; that is, partition coefficient = $(C_1 / C_2)_{\text{equil}}$. The units of C_1 and C_2 may be different.

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Partition Coefficient - an overview | ScienceDirect Topics

From inside to outside, the Earth's layers are the inner core, outer core, inner mantle, outer mantle, and crust. And, though we can't drill past the outer mantle because of the extreme heat and pressure, scientists have observed seismic waves to understand what the inner layers

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