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Plate Tectonics for Kids | Tectonic Plates Explained *The Changing Landscape of Plate Tectonics* Plate Tectonics Explained | Plate Boundaries | Convection Currents *The Theory Of Plate Tectonics* The theory of plate tectonics is based on a broad synthesis of geologic and geophysical data. It is now almost universally accepted, and its adoption represents a true scientific revolution, analogous in its consequences to quantum mechanics in physics or the discovery of the genetic code in biology.

plate tectonics | Definition, Theory, Facts, & Evidence ...

The scientific theory that describes the large-scale motions of Earth's lithosphere. The tectonic plates of the world were mapped in the second half of the 20th century. Diagram of the internal layering of Earth showing the lithosphere above the asthenosphere (not to scale) Plate tectonics (from the Late Latin: tectonicus, from the

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Ancient Greek: ??????????, lit. 'pertaining to building') is a scientific theory describing the large-scale motion of seven large plates and the ...

Plate tectonics - Wikipedia

Where convection currents diverge near the Earth's crust, plates move apart. Where convection currents converge, plates move towards each other, plates converge and the plates move together, also...

The Earth's structure - Plate tectonic theory - WJEC ...

Theory of Plate Tectonics When the concept of seafloor spreading came along, scientists recognized that it was the mechanism to explain how continents could move around Earth's surface. Like the scientists before us, we will now merge the ideas of continental drift and seafloor spreading into the theory of plate tectonics.

The Theory of Plate Tectonics | Geology

The theory of plate tectonics explains the relative movement of crustal plates that are juxtaposed with each other to form an interlocking pattern of plate boundaries, oceanic trenches, mountain ranges, etc.

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Theory of Plate Tectonics - Science Struck

It states that Earth's outer shell is made up of many different plates, all which glide over top the Earth's mantle. The plates are found in the lithosphere. Also known as continental drift, the theory of plate tectonics is the reasoning behind why and how continents are constantly moving.

What Is the Theory of Plate Tectonics - ScienceAid

Plate tectonics theory is the scientific theory that attempts to explain why the Earth's crust acts the way it does and produces the landforms we can see on the Earth's surface. Plate tectonics theory & Alfred Wegener Plate tectonics grew out of a theory that was first developed in the early 20th century by the meteorologist Alfred Wegener.

Introduction to Plate Tectonics Theory | Geography | tutor2u

Plate tectonics is the theory that Earth's outer shell is divided into several plates that glide over the mantle, the rocky inner layer above the core. The plates act like a hard and rigid shell...

What is Plate Tectonics? | Plate Tectonics | Live Science

Plate tectonics is the scientific theory that attempts to explain the

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movements of the Earth's lithosphere that have formed the landscape features we see across the globe today. By definition, the word "plate" in geologic terms means a large slab of solid rock.

What You Should Know About Plate Tectonics

crustal generation and destruction Three-dimensional diagram showing crustal generation and destruction according to the theory of plate tectonics; included are the three kinds of plate boundaries—divergent, convergent (or collision), and strike-slip (or transform).

Plate tectonics - Earth's layers | Britannica

Plate tectonics is the hypothesis that Earth's external shell is separated into a few plates that float over the mantle, the rough inward layer over the core. The plates demonstration like a hard and unbending shell contrasted with Earth's mantle. This solid outer layer is known as the lithosphere, which is 100 km (60 miles) thick.

Plate Tectonics | A Level Geography Revision Notes

The theory of plate tectonics states that the Earth's solid outer crust, the lithosphere, is separated into plates that move over the asthenosphere, the molten upper portion of the mantle. Oceanic and continental plates come together, spread apart, and interact at

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boundaries all over the planet.

Plate Tectonics | National Geographic Society

According to the generally accepted plate-tectonics theory, scientists believe that Earth's surface is broken into a number of shifting slabs or plates, which average about 50 miles in thickness. These plates move relative to one another above a hotter, deeper, more mobile zone at average rates as great as a few inches per year.

Continental Drift and Plate-Tectonics Theory

Plate tectonics is the theory that explains the global distribution of geological phenomena. Principally it refers to the movement and interaction of the earth's lithosphere.

Plate Tectonic Theory - The British Geographer

Plate tectonics is a theory that was first proposed in the early 1900s by scientist Alfred Wegener, but was not said to be true until the 1960s. When Alfred Wegener first proposed the theory of continental drift, he described the tectonic plates, or the continents, as puzzle pieces fitting together.

Plate Tectonic Theory- A Brief History of Plate Tectonic ...

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Dipping, roughly planar zones of increased earthquake activity produced by the interaction of a subducting oceanic crustal plate with an overriding continental or oceanic plate. They occur at boundaries of crustal plates called subduction zones.

The theory of plate tectonics - Flashcards in A Level and ...

Plate tectonics is a theory of geology. The plates move using three types of movements. They are: convergent, divergent and transform movement. Let's Learn a...

Plate Tectonics | Tectonic plates Theory | Video for kids ...

The theory of continental drift was the first step toward plate tectonic theory, which became the foundation upon which modern geology is built. This module describes how the work of Alfred Wegener, Harry Hess, and others led to our understanding of plate tectonics. It explains plate tectonics as the driving force behind ongoing changes on Earth.