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this article provides science content knowledge about forces that shape the earth s surface erosion by wind water and ice volcanoes earthquakes and plate tectonics and how these forces affect earth s polar regions published 23 december 2021 facts about the four fundamental forces that describe every interaction in nature the four fundamental forces of nature are at the root of every interaction in the great forces from within causes the surface to heave and buckle sometimes with disastrous consequences to humans energy received from the sun drives processes like those that create majestic sand dunes and carve magnificent stream valleys endogenic processes and the lithosphere great forces from within causes the surface to heave and buckle sometimes with disastrous consequences to humans energy received from the sun drives processes like those that create majestic sand dunes and carve magnificent stream valleys the internal structure of earth is the layers of the earth excluding its atmosphere and hydrosphere the structure consists of an outer silicate solid crust a highly viscous asthenosphere and solid mantle a liquid outer core whose flow generates the earth s magnetic field and a solid inner core the earth s interior is composed of four layers three solid and one liquid not magma but molten metal nearly as hot as the surface of the sun the deepest layer is a solid iron ball about forces at plate boundaries are strong enough to break rocks or change their shape stress is the force that acts on a rock to change its shape or volume it adds potential or stored energy to the rock until it changes shape or breaks three different kinds of stress can occur in the crust earth s terrestrial surface is the nexus where diverse systems vital to the habitability of the planet converge tectonic processes and flow in earth s interior drive deformation of earth s surface that can lead to destructive earthquakes tsunamis and volcanic eruptions the structure of the earth is divided into four major components the crust the mantle the outer core and the inner core each layer has a unique chemical composition physical state and can impact life on earth s surface there are three main forces that drive deformation within the earth these forces create stress and they act to change the shape and or volume of a material the following diagrams show the three main types of stress compressional tensional and shear the force of earth s gravity is the result of the planets mass and density 5 97237 10 24 kg 1 31668 10 25 lbs and 5 514 g cm 3 respectively the earth s inner core is a huge metal ball 2 500km wide made mainly of iron the temperature of the ball is 5 000 c to 6 000 c that s up to 6 000 times hotter than our atmosphere and scorching enough to make metal melt the team s research focused on source mechanisms for earthquakes the transport of fluids through the mantle and the extraction of magma from the earth s interior this is where it leaves a tangible imprint evidence that there exists a force more powerful than gravity at work within the earth whose influence extends very far assuming spherically symmetric mass distribution within earth one can compute gravitational field inside the planet using gauss law for gravity one consequence of the law is that while computing the gravitational field at a distance r r with r being the radius of the earth one can ignore all the mass outside the radius r from the center gravity is a force that pulls objects down and it is commonly known to be approximately constant on the surface of earth what would happen if you however dug a deep hole into the earth would the gravity you experience change as you went underground and how would it change with depth earth s internal heat shapes global landforms and environments through processes in the geosphere this model shows some of the phenomena that result from plate tectonics and the rock cycle including mountain building volcanism and the distribution of continents and oceans earth s magnetic field nearly as old as the planet itself protects life from damaging space radiation but 565 million years ago the field was sputtering dropping to 10 of today s strength according to a recent discovery related earth s layers exploring our planet inside and out the earth s inner core is a hot dense and solid ball made of iron and nickel located 3 200 miles 5 150 kilometers below our feet learn how the surface of the earth is influenced by internal forces in its inner layers how seismologists can map the surface based on earthquake activity and the impact of external forces

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