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earth structure 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 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 structure earth is composed of four main layers starting with an inner core at the planet s center enveloped by the outer core mantle and crust the inner core is a solid sphere made of iron and nickel metals about 759 miles 1 221 kilometers in radius yuri arcurs getty images imagine earth as an onion with multiple layers each with its own unique properties and characteristics delving into the layers of the earth not only helps us understand our own planet but also provides insight into other celestial bodies in the universe the earth s structure is a fascinating and complex arrangement of layers that make up our planet s interior understanding this structure is crucial for geologists and scientists as it provides insights into the earth s composition behavior and the processes that shape our planet core mantle and crust are divisions based on composition the crust makes up less than 1 percent of earth by mass consisting of oceanic crust and continental crust is often more felsic rock the mantle is hot and represents about 68 percent of earth s mass finally the core is mostly iron metal the core makes up about 31 of the earth the earth is divided into a series of layers the inner core outer core mantle and crust each of these layers has its own chemical and mechanical properties cross section of the earth

illustrating oceanic and continental crust the outermost layer of the earth is the crust the crust is the thinnest layer earth is the only planet in the solar system to have one moon venus and mercury do not have any moons for example while jupiter and saturn each have more than a dozen planet earth interior earth s interior is a complex structure of superheated rocks the four primary layers are the crust the mantle the outer core and the inner core however geologists subdivide these layers into a complex structure that better describes the earth s intricate composition and behavior let s start with the basic four layer model before delving into greater detail the 4 basic layers of the earth the crust 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 earth s internal structure crust mantle core three parts of earth s interior a knowledge of earth s interior is essential for understanding plate tectonics a good analogy for teaching about earth s interior is a piece of fruit with a large pit such as a peach or a plum science cosmology and astronomy earth geological and climatic history plate tectonics structure of the earth google classroom about transcript structure of the earth crust mantle core created by sal khan questions tips thanks want to join the conversation log in sort by top voted robert john titus 12 years ago these waves show that the earth is made from five layers the inner and outer core the lower and upper mantle and the crust check out our magazine national geographic kids is an exciting monthly read for planet passionate boys and girls aged 6 13 the structure of the earth is divided into layers these layers are both physically and chemically different the earth has an outer solid layer called the crust a highly viscous layer called the mantle a liquid layer that is the outer part of the core called the outer core and a solid center called the inner core the composition and structure of earth physical geography core mantle and crust are divisions based on composition the crust makes up less than 1

percent of earth by mass consisting of oceanic crust and continental crust is often more felsic rock the mantle is hot and represents about 68 percent of earth s mass planet and is roughly the shape of a sphere there are three layers that make up the earth s structure the three layers starting from the outside are the crust the rocky outer layer earth third planet from the sun and the fifth largest planet in the solar system in terms of size and mass its single most outstanding feature is that its near surface environments are the only places in the universe known to harbor life learn more about development and composition of earth in this article the earth s structure parameters the principal moments of inertia and geopotential coefficients of higher orders are constant in the terrestrial frame and therefore the torque on the earth is readily determined in this frame as noted earlier find lessons on earth s structure for all grades free interactive resources and activities for the classroom and home the exosphere is the outermost layer of the earth s atmosphere where most satellites orbit the exosphere denotes the end of our atmosphere and the beginning of outer space though there is not a definitive top altitude where the exosphere ends it s kind of like the air molecules are leaking out of the earth s atmosphere said ueyama

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