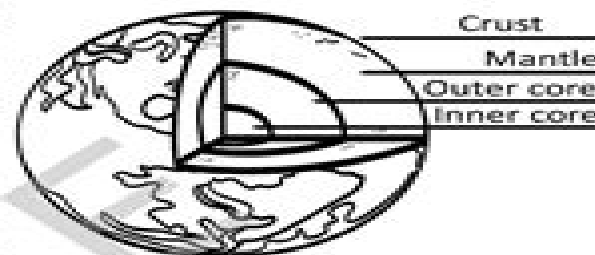


## Volcanoes, Earthquakes & Plate Tectonics

You are probably already familiar with the layers of the Earth, but we're going to review them quickly just so we remember. The **crust** is the very top layer of the Earth. It's made of rock and includes the ground we stand on, the ocean floor, and miles and miles of rock and dirt. Scientists think it is about 5 to 25 miles (8 to 40 kilometers) thick.

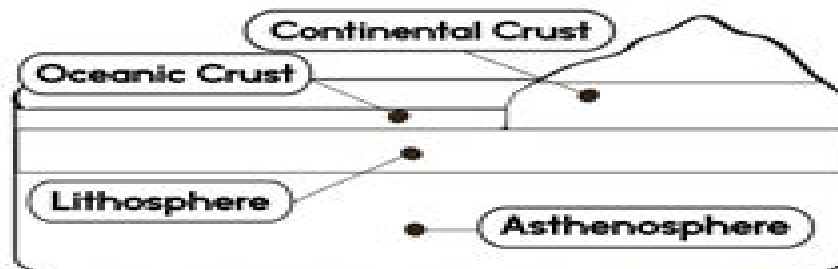
The next layer is the **mantle**. The mantle is made of rock, but it's a little bit different. The very top of the mantle is hard rock, but there is so much heat and pressure on the rock in the rest of the mantle that the rock isn't solid or hard, like we usually think of rock. This rock is sort of sticky and gooey, a little like caramel. It's not totally solid, and it's not totally liquid. It can move and flow from place to place, and scientists think it is about 1,800 miles (2,900 kilometers) thick.



The next layer of the earth is called the **outer core**. This layer is liquid iron, and the earth's mantle rests on top of it. Scientists think this layer is about 1,400 miles (2,250 kilometers) thick.

The deepest layer is called the **inner core**. Scientists think this layer is made of nickel and iron that form an extremely hard ball in the middle of the earth.

Scientists have even more categories and ways to separate the different layers near the surface of the Earth that will be helpful as we learn about earthquakes and volcanoes. The crust isn't the same everywhere. We call the part of the crust that the continents are on the **continental crust**. It's very thick, reaching about 30 miles (50 kilometers) beneath the continents. The **oceanic crust** is the ocean floor. It is much thinner and reaches about 3-6 miles (5-10 kilometers) beneath the ocean. The deepest spot in the ocean we've found is called the Mariana Trench. It stretches 35,840 feet (10,924 meters) deep, which is less than 7 miles (11 kilometers).



The crust and the very top part of the mantle together are called the **lithosphere**. The rest of the mantle beneath them is called the **asthenosphere**.

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nally sulting in devastating earthquakes all control the existence and destiny of a certain part of the global population The  
development of man s existence down through history has depended upon his understanding of the world in which he lives  
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