

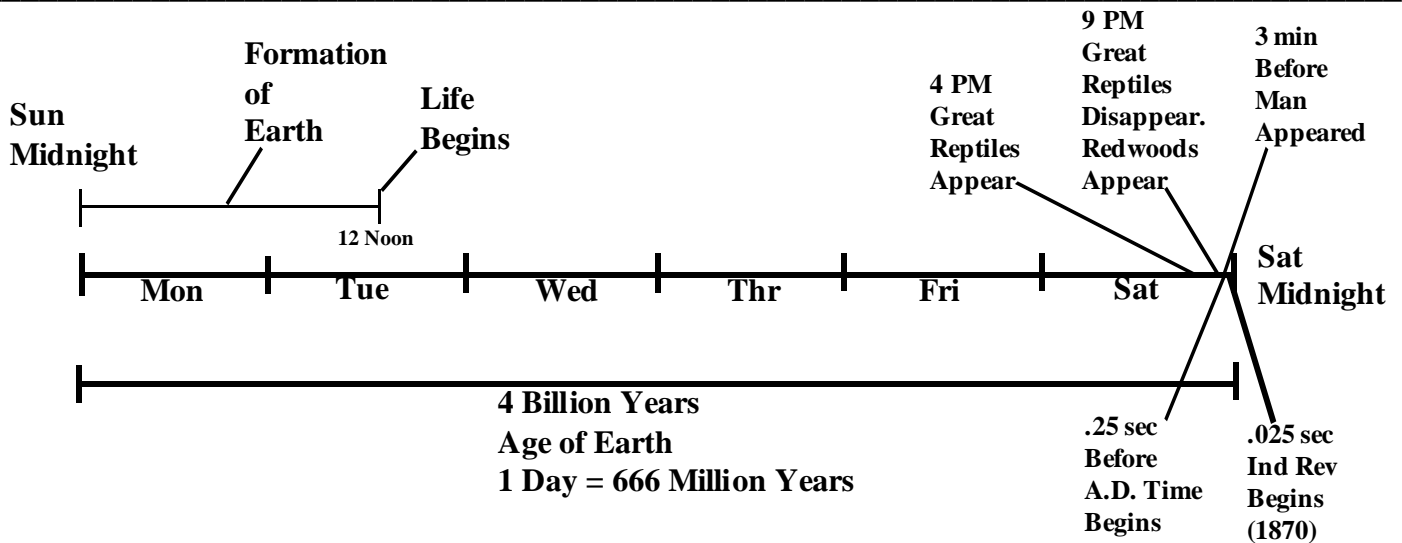
# Layers of the Earth

1. The thinnest layer of the earth is \_\_\_\_\_.
2. The thickest layer of the earth is \_\_\_\_\_.
3. The coolest layer is \_\_\_\_\_.
4. The hottest layer is \_\_\_\_\_.
5. Which layer of the earth is made of plastic rock (part liquid, part solid)? \_\_\_\_\_.
6. Which layer is made up of solid nickel and iron? \_\_\_\_\_
7. Which layer is made up of liquid nickel and iron? \_\_\_\_\_
8. What is the deepest layer that we have dug into? \_\_\_\_\_
9. The crust is thickest at the \_\_\_\_\_ and thinnest at the \_\_\_\_\_
10. How can the inner core be solid if it is hotter than the liquid outer core.

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# JOURNEY TO THE CENTER OF THE EARTH

You are about to travel to the center of the earth. Like anyone who is traveling you need to know where you are going and what you will experience. I hope that you pack the right clothes and your vacation is nice.

## **The Crust**

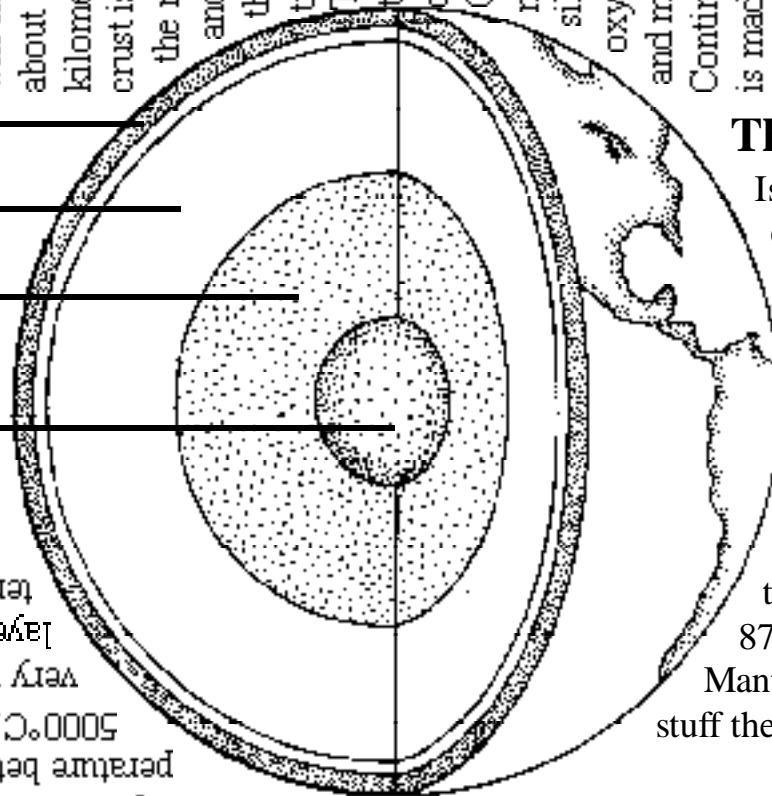
Is the outer most region of the earth. To travel through here you will have to tunnel about 8 to 64 kilometers. The crust is thickest at the mountains and thinnest at the ocean trenches. There are 2 types of crust. Oceanic, is made up of silicon, oxygen, iron and magnesium. Continental crust is made of silicon and oxygen. The crust has a temperature between the surface temp. and 870°C.

CRUST

MANTLE

LIQUID OUTER CORE

SOLID INNER CORE



## **The Mantle**

Is a peculiar layer of the earth. It acts like a solid and a liquid. It flows yet it can support the crust. To get through this level you will be tunneling 2900 kilometers. You will also have to withstand temperatures between 870°C and 2200°C. The Mantle is made of the same stuff the crust is.

If you have managed to survive so far this trip, you are about to encounter some very severe conditions. You are about to enter an area composed of liquid nickel and iron at a temperature between 2200°C and 5000°C. I hope that you are very tough, because this layer is 2250 kilometers thick.

## **Liquid Outer Core**



**Solid Inner Core**  
Well, if you managed to make it through the Liquid Outer Core. Get out your best digging tools because you are almost there. The solid inner core is very hot (5000°C) You would think that the nickel and iron would melt, but the pressure from the layers above help it to remain a solid. This Layer is 1300 kilometers thick.

**OFF WE GOOO!**

