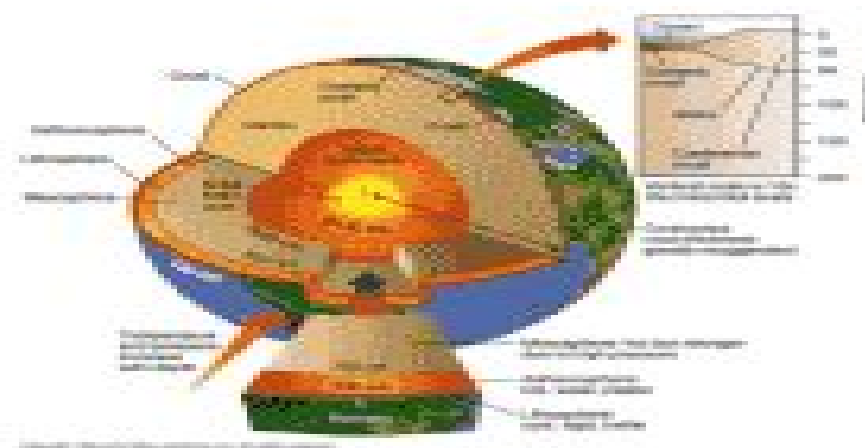


## **STAAR Science Tutorial 39** **TEK 8.9B: Formation of Crustal Features**

**TEK 8.9B: Relate plate tectonics to the formation of crustal features.**

### **Earth's Layers**

- To understand how the Earth's crust has been shaped into the mountains and valleys that exist today, we must first look at the layered structure of the Earth, and how leftover heat in the Earth's core, part of Earth's creation 4.6 billion years ago, still provides most of the energy building mountains today. The decay of radioactive elements such as uranium provides the remaining energy.
- Scientists classify the interior layers of the Earth in two different ways: chemically (that is, what the layers are made of) and structurally (how dense and solid the layers are). Both classification systems for the layers are shown below.
- Chemically, the Earth has three layers: the **core**, made largely of the metals iron and nickel; the **mantle**, made of dense rocks rich in iron; and the **crust**, a very thin surface layer made of less dense rocks rich in aluminum and magnesium. The denser ocean crust is mostly **basalt**, a dense black igneous rock, while the continental crust is less dense rocks like **granite**.
- Structurally, the Earth has five layers. These layers are affected by both pressure and heat, which both increase with depth. In other words, the center of the Earth has both the highest pressure and highest temperature. Pressure and temperature interact on the different layers, creating an alternating solid-liquid-solid-liquid-solid sequence of layers.
 



The diagram illustrates the Earth's internal structure. It shows a cross-section of the Earth with labels for the following layers from the surface down: Crust, Mantle, and Core. The Mantle is further divided into the Upper Mantle and Lower Mantle. The Core is divided into the Outer Core and Inner Core. A separate inset graph shows the temperature profile of the Earth's interior, with temperature increasing with depth. The graph labels the Crust, Mantle, and Core, and shows the temperature reaching over 5000°C at the center. The diagram also shows the Earth's magnetic field lines and the movement of material in the outer core.
- The innermost layer is the **inner core**, which is mostly solid iron and nickel, possibly forming north-south oriented magnetic crystals. It has temperatures over 5000°C.
- The **outer core** is made of the same metals as the inner core, but the lower pressures allow the metals to melt. It is the movement of the metal in the outer core which creates the Earth's magnetic field.

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