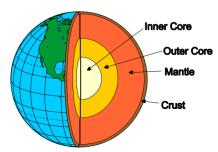
## **Layers of Earth and Plate Tectonics**

S6E5. Obtain, evaluate, and communicate information to show how Earth's surface is formed.

A. Ask questions to compare and contrast the Earth's crust, mantle, inner and outer core, including temperature, density, thickness and composition.



Term	Info	Picture
crust	The outermost layer of Earth: Solid Least dense Thinnest Coldest Made of silicon, oxygen,	Ocean Crust is Thinner Than Continental Crust  Chest Upper Martie Martie Order Core Incer Core
mantle	The second layer of the Earth More dense than crust, less dense than core Mostly solid Thickest layer Warmer than crust, cooler than core Contains magnesium and iron	THE EARTH In Proportion Clust State Course Table Clust State Course Table State Course Ta
outer core	The third layer of the Earth More dense and hotter than crust and mantle, less dense and cooler than inner core Liquid Nickel and Iron	Mantle Outer Core Inner Core
inner core	The fourth and innermost layer SOLID Iron and Nickel Densest, hottest,	Inner Core Outer Core Mantie Crust
lithosphere	the solid, outer layer of Earth that consists of the crust and the rigid upper part of the mantle	Continent Contin
asthenosphere	the solid, plastic-like layer of the mantle beneath the lithosphere; made of mantle rock that flows very slowly, which allows tectonic plates to move on top of it	Dollan  Latterpress (solid)  Authorogenes (portel) rothers

Term	Info	Picture
Seismic waves	a vibration in rock that travels out from the focus of an earthquake in all directions; seismic waves can also be caused by explosions	
Geothermal energy	the energy produced by heat inside of Earth	Fluid is reposled to the reservoir from through the rejection well to complete the local services the township of the reservoir from through the rejection well to complete the local services the township of the rock and maintains the reservoir fluid representation that the reservoir fl
Convection currents	When warm air or liquid is less dense and rises and cool air or liquid is more dense and sinks	Trench  "SLAB PULL"  Ridge Lithosphere Trench  Asthernosphere  Too km  Outer Core  Inner  Core
Continental crust	The crust of Earth on continents. Made of Granite. Less dense.	Continental crust Oceanic crust
Oceanic crust	The crust of Earth under the oceans. Made of basalt. More dense than continental crust.	

## **Learning Targets:**

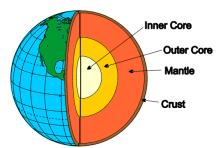
- 1. I can compare and contrast the Earth's crust, mantle, and core including temperature, thickness, density, and composition (including liquid and/or solid).
- 2. I can compare and contrast the inner and outer core.
- 3. I can describe challenges that stand in the way of sending explorers to the center of the earth.
- 4. I can compare and contrast the lithosphere and asthenosphere.



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Term	Info	Picture	
crust		Ocean Crust is Thinner Than Continental Crust  Crust Upper Martie Martie Outlet Core  Server Core	
mantle		THE EARTH In Proportion Proportion COMPANY ALL CONSTITUTION OF THE PROPORTION OF THE	
outer core		Mantle Crust Outer Core Inner Core	
inner core		Inner Core Outer Core Mantle Crust	
lithosphere		Continent Crust  See level  0 km  Lithosphere (rigid)  Astronosphere (plastic)  120 km  Continent	
asthenosphere		Cosan  Lamosphere (sales)  Authenosphere (sales)	

Term	Info	Picture
Seismic waves		
Geothermal energy		Electricity  Water specy from cooking facility  Plaid is expected to the exerced through the higheston well to complete the loop  Inspected food entereds the loop  Inspected food entereds the special of the exerced through the rock  Inspected food entereds the special of the
Convection currents		Trench Ridge Lithosphere Trench  Mantle  700 km  Outer Core  Inner  Core
Continental crust		Continental crust
		Oceanic crust
Oceanic crust		

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