











## Seismology Seismic waves do not travel through Earth in straight lines or at constant speed. They are bent by or bounce off transitions The main interior between different materials or different structure was known by 1936! densities or temperatures. Such information can

be analyzed to infer the structure of Earth's interior.



	Earth's Interior
	Basic structure: Solid crust Liquid core Solid inner core
	Earth's interior gets hotter toward the center.
-	Earth's core is as hot as the sun's surface; metals are liquid.
	5000 Melting point increases with increasing pressure toward the center   5000 Melting point = temperature at which an element melts   5000 Inner core transition from solid to
	Solid mantle liquid) Liquid core Solid core
10/001	0 1000 2000 3000 4000 5000 6000 Dirpth (km)



## Magnetic Field (1)

Earth's magnetic field is generated due to rotation of the Earth and Earth's outer core. This is called the Geomagnetic Dynamo.

Earth's magnetic field is complex and changes over time, even reversing directions many times in the past.































