

Quiz Review

Know the following terms:

Inner Core	The center of the earth made of solid metal at extreme temperatures. The pressure of the Earth keeps this metal in a solid form.
Outer Core	A layer of molten metal (magma) found surrounding the Earth's center.
Asthenosphere	The softest part of the mantle, this layer is flexible like plastic but still a solid.
Lithosphere	The upper part of the mantle combined with the crust forms this layer.
Crust	The layer of solid rock that includes both dry land and ocean floor.
Seismic Waves	Vibrations that travel through the Earth. Scientists use these vibrations to study the structure of the Earth.
Mid Ocean Ridge	Underwater mountains formed by magma from the Earth's interior.
Sea Floor Spreading	Convection in the Earth's Mantle spreads the sea floor. Magma is forced through the crust creating the Mid Ocean Ridges.
Deep Ocean Trenches	Deep underwater canyons created by bends in the Earth's Crust.
Subduction	The process by which the ocean floor sinks beneath a deep ocean trench back into the mantle.
Convection Current	The mode of heat transfer that is responsible for the movement of tectonic plates.

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Know the following terms:

Alfred Wegener	Developed the hypothesis that all the continents of the Earth were once joined together in one single landmass called Pangaea.
Harry Hess	An American geologist who used sonar to study mid ocean ridges. He developed the theory of Sea-Floor spreading.

In addition be familiar with the following:

1. Alfred Wegener's theory of Continental Drift.
2. Harry Hess's theory of sea floor spreading.
3. How the Earth's magnetic field relates to sea floor spreading.
4. Be able to explain your 3-D sea floor spreading and subduction zone models.