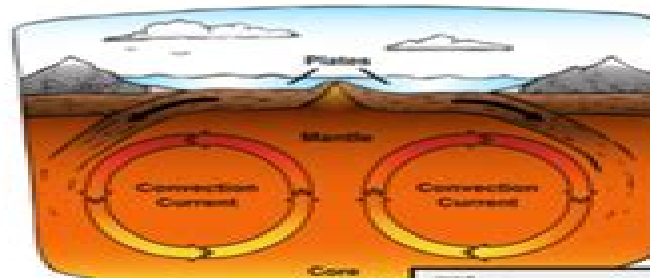


HOW DO PLATE TECTONICS MOVE?

Scientists are still exploring how and what exactly makes tectonic plates move. There is different evidence that these are moving (i.e. GPS measurements). Here are some of them:

CONVECTION THEORY

The convection of the mantle materials involves the rise of magma or molten rocks in the mantle and sinks to the core as it cools down.



This process was believed to be the cause movement of plates, which resulted in volcanic eruptions and earthquakes.

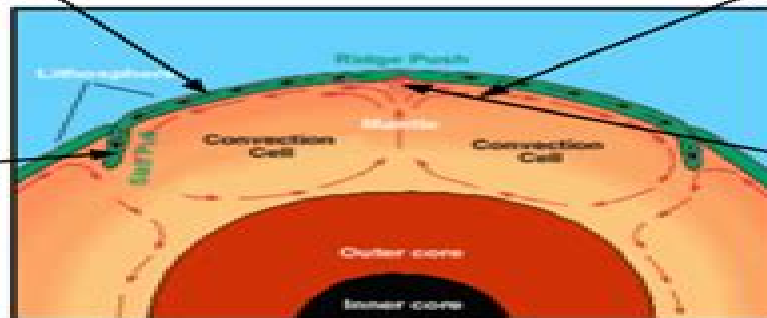
The temperature of the core is about **6,000 degrees Celsius**

RIDGE PUSH AND SLAB PULL

Plates move away from each other when the lithosphere slides down away from the ridge. This is **ridge push**.

As plates move apart, it cools down to form a new plate material, and the lithosphere cools down and becomes denser.

The dense plate sinks back to the mantle due to gravity. This process is called **slab pull**.



Molten rock or magma rises in the mantle under the ocean ridges, which causes the plates to move apart.

Answers Of Plate Tectonics

Mark Steyvers

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Answers Of Plate Tectonics:

, *Science Games and Puzzles, Grades 5 - 8* Schyrlet Cameron, Carolyn Craig, 2012-01-03 This book promotes science vocabulary building increases student readability levels and facilitates concept development through fun and challenging puzzles games and activities

Plate Tectonics--Rock Your World Hands-On Activity Sarah D. Giese, 2014-01-01 Make geography fun and interactive to motivate your students Encourage teamwork creativity reflection and decision making Take an active approach to teaching while inspiring your students to make their own explorations of geography Plate Tectonics Xavier Le Pichon, Jean Francheteau, Jean Bonnin, 2013-10-22 Developments in Geotectonics 6 Plate Tectonics focuses on the exposition of the plate tectonics hypothesis as well as plate boundaries stratification and kinematics The book first offers information on the rheological stratification of the mantle and kinematics of relative movements Topics include lithosphere asthenosphere kinematics of finite motions measurements of instantaneous movements and worldwide kinematic pattern The text then ponders on movements relative to a frame external to the plates and processes at accreting plate boundaries Discussions focus on reference frames paleomagnetic synthesis creation of oceanic crust and continental rifts The publication elaborates on processes at consuming plate boundaries including sinking plate model structure of trenches and associated island arcs and cordilleras and consumption of continent bearing lithosphere The text is a valuable source of data for readers interested in plate tectonics

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