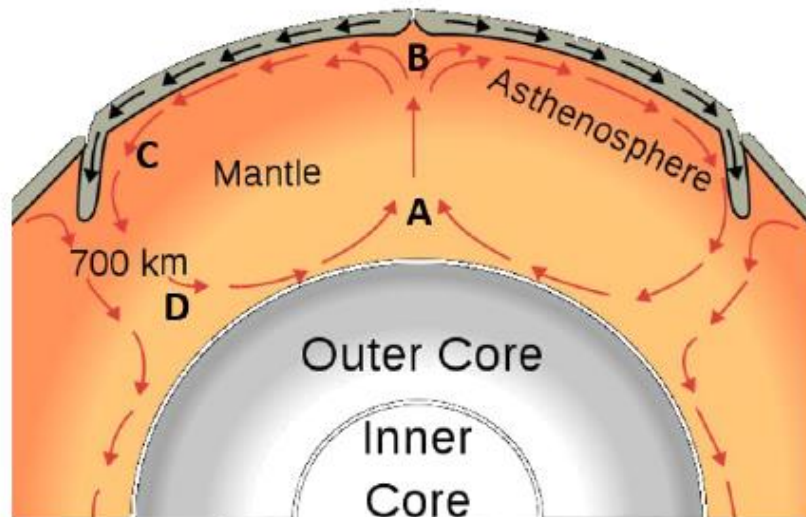


GRAPHIC ORGANIZER: CONVECTION CURRENTS



A

Density of mantle material is less than material above it, so the materials begin to rise.

B

Rising material hits rigid lithosphere and cannot go up any further.

C

The force of gravity is causing denser material to fall.

D

Core heat causes temperature to rise, therefore decreasing the density of material

CAUSE

Convection currents are caused by Earth's internal thermal energy causing mantle to heat, expand, and rise. As it gets closer to crust it cools, becoming denser and sinking forming a current.

EFFECT

The convection currents act as a "conveyor belt" moving the plates of the lithosphere above.

RESULT

The result of plates moving are earthquakes, volcanic eruptions, and building of mountains.