

# Plate science essay sample

[Science](#)



**ASSIGN  
BUSTER**

Why does the thickness of ocean floor sediments increase the farther they are from a ridge?!

-Thickness of ocean floor sediments increase the farther they are from a ridge because when new rocks form at the ridge, old rocks move away from the centre and this rocks stack along the end of sediments which pile up for long time that creates thick sediments.

How does sea floor spreading explain the movement of tectonic plates?! – Sea floor spreading in movement of tectonic plates is called divergent, the separation of two plate. This can be proved because magma comes out from the fault of ridge which means plate has open and it's realising the magma. Other reason, if diverging is happening at one point, that means converging is happening at other end of plate, for example Himalayan mountain range at India and Nepal (converging) and other side of plate that contains India is having diverging which created Mid-Atlantic ridge.

Suppose a geologist is studying two distinct areas next to a spreading ridge. The magnetic direction of the minerals in the oldest area is opposite to the magnetic direction of minerals in the newest area.

(a) Which area is closest to the centre of the ridge, the older or newer area? Explain. (b) What can the geologist conclude about Earth's magnetic field during the time when the two areas formed?