



Memory Geogger

Identify which key words are being described below:

These carry heat from the core of the Earth to the crust. They cause plates to move

These are where plates meet.

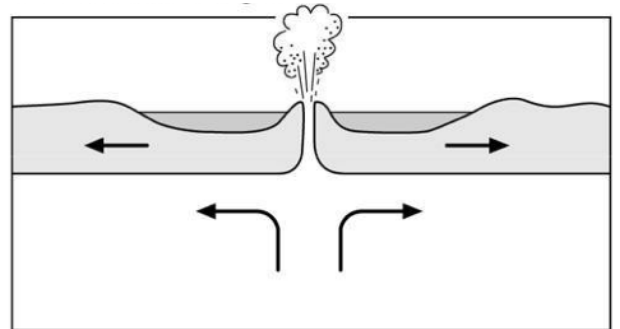
These plates are dense, heavy and formed from igneous (volcanic) rock.

Words: plate margin | convection current | oceanic crust

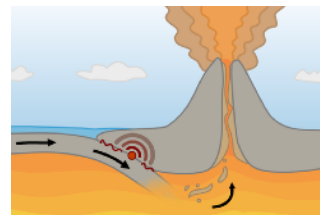
Describe what is meant by a zone of subduction.

State 3 facts about the global distribution of volcanoes

Identify the plate margin below.



Explain what happens at a destructive plate margin





Memory Geogger

Identify which key words are being described below:

Convection currents

Plate margins / plate boundaries

Oceanic crust

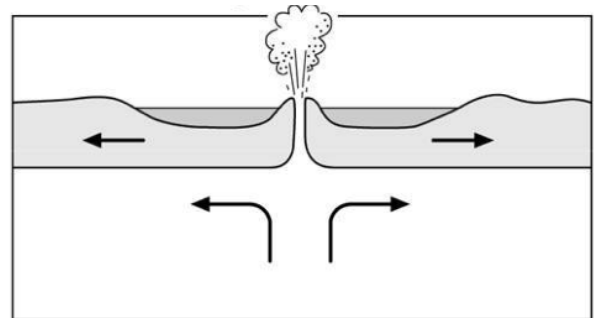
Describe what is meant by a zone of subduction.

A zone of subduction is found at a destructive plate margin where an oceanic plate sinks below a continental plate.

State 3 facts about the global distribution of volcanoes

- They are found in narrow belts around the world
- Volcanoes are found along destructive (subducting) plate boundaries, constructive (divergent) plate boundaries and at hot spots in the earth's surface.
- They are found down the middle of the Atlantic Ocean where the North American Plate and Eurasian plate form a constructive plate margin. They are also located along the west coast of North and South America.
- Over 75% of the Earth's volcanoes are located around the Pacific Ring of Fire.

Identify the plate margin below.



Constructive plate margin

Explain what happens at a destructive plate margin

A destructive plate boundary happens where an oceanic and continental plate move towards each other. The heavier, more dense oceanic plate is forced under the continental plate. As it sinks below the continental plate the oceanic plate melts due to friction in the subduction zone. The crust becomes molten magma. This may be forced to the surface of the earth causing a volcanic eruption. The movement of the oceanic plate is not smooth. Due to friction the plate gets stuck. Pressure then builds up. The plate will eventually slip sometimes causing an earthquake.

The continental plate is crumpled by the pressure and forms fold mountains.

