Convergent Boundary-

Oceanic and Continental collision

Convergent Boundary oceanic and continental collision is continental and oceanic plates collide the thinner and more dense oceanic plate is overridden by the thicker and less dense continental plate. Subduction happens between the two plates and happen where ocean trenches, mountain ranges and island arc form.













When an oceanic plate collides with a continental plate the crust forming the oceanic under the continental crust. This is because the rocks that form the oceanic crust are denser and thinner . The process by which the oceanic crust is pulled under the continental crust is called subduction and the zone at which this occurs at the plate boundaries. At the subduction zone where the oceanic crust sinks beneath the continental crust a deep oceanic trench or valley is created. These can be many of thousands of kilometres long and 8 to 10 kilometres deep making them the deepest part of the ocean floor.



http://www.geolsoc.org.uk/Plate-Tectonics/Chap3-Plate-Margins/Convergent/Oceanic-oceanic-collision



Oceanic and continental plate collisions result in mountain and volcano formation. This is found at the boundary between the South American continental plate and the Nazca oceanic plate. The South American continental plate is being lifted over the subducted Nazca oceanic plate creating the Andes mountain range.