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  + **One type of motion is produced byseafloor spreading.**
  + **• Plates interact at three types of plate boundaries: divergent, convergent and transform.**
  + **• Most of the Earth’s geologic activity takes place at plate boundaries.**
  + **• At a divergent boundary, volcanic activity produces a mid ocean ridge and small earthquakes.**
  + **• At a convergent boundary with at least one oceanic plate, an ocean trench, a chain of volcanoes develops and many earthquakes occur.**
  + **• At a convergent boundary where both plates are continental, mountain ranges grow and earthquakes are common.**
  + **• At a transform boundary, there is a transform fault and massive earthquakes occur but there are no volcanoes.**
  + **• Processes acting over long periods of time create Earth’s geographic features.**