Make a Model—which would require melting or cooling? Why?
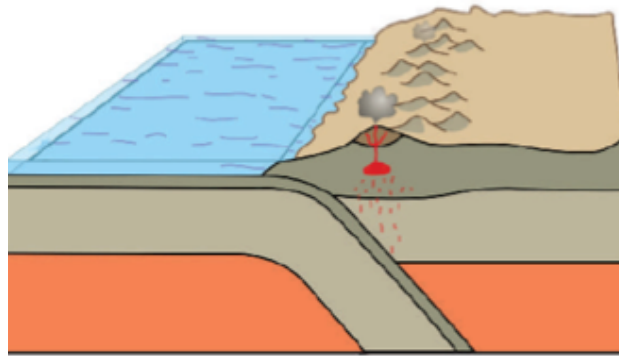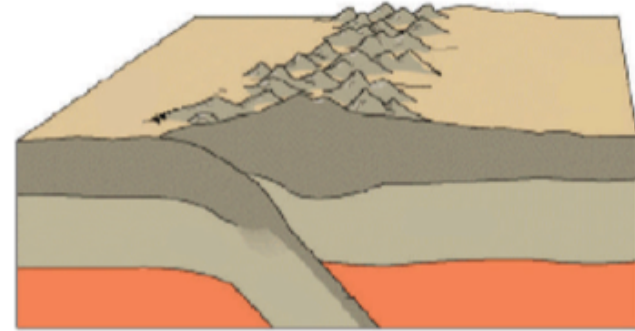
Convergent Subduction

Convergent Crumple

Divergent—Sea Floor Spreading

Transform Boundary

mid-oceanic ridge

plate 1   magma   plate 2

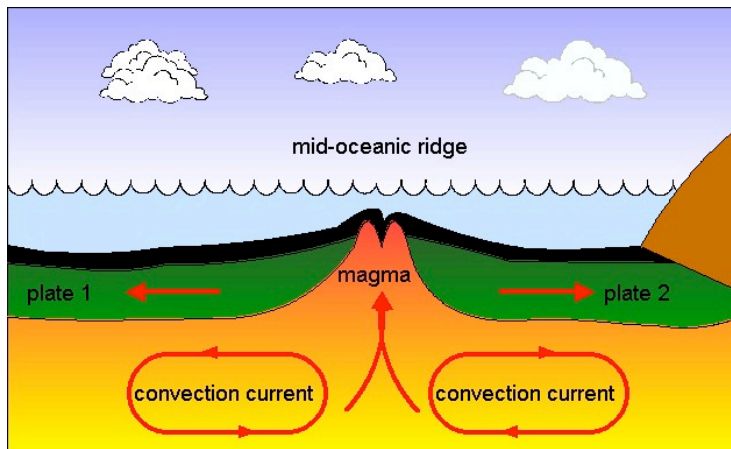convection current   convection current

Plate 1 and plate 2 move apart. Magma rises, cools and solidifies forming new igneous rock.
This is sea-floor spreading and is a constructive plate boundary.

Transform Boundaries Occur in Both Oceanic & Continental Lithospheres, Producing the Same Effects.

Plate Movement

Rocks Under Extreme Stress. Sudden Release of Pressure Causes Earthquakes.

Area of Extreme Friction & Stress.

Transform Boundary

Geographic Effects: Occasional Scars & Fissures.

Geologic Effects: Extreme Earthquakes. No Volcanism.