TECTONIC PLATE BOUNDARY COMPARISON CHART

BOUNDARY TYPE	MOTION	TOPOGRAPHIC FEATURES	GEOLOGIC EVENTS	REAL-WORLD EXAMPLES
Divergent (Oceanic)	Spreading / Moving Apart	Mid-ocean ridge, Central rift valley	Sea-floor spreading, Shallow earthquakes, Volcanic activity	*Mid-Atlantic Ridge, East Pacific Rise*
Divergent (Continental)	Spreading / Moving Apart	Rift valley, Linear lakes/seas	Continental rifting, Volcanic eruptions, Normal faulting	*East African Rift, Red Sea*
Convergent (O-C Subduction)	Collision / Subduction	Trench, Volcanic mountain arc	Deep earthquakes, Explosive volcanism, Subduction	*Andes Mountains, Cascade Range*
Convergent (O-O Subduction)	Collision / Subduction	Deep ocean trench, Island arc	Frequent earthquakes, Volcanic island formation, Tsunami risk	*Mariana Trench, Aleutian Islands*
Convergent (C-C Collision)	Collision / Uplift	High mountain ranges, Plateaus	Intense folding and faulting, Deep earthquakes, No volcanoes	*Himalayas, Appalachian Mountains*
Transform	Lateral Sliding	Fault lines, Offset features (streams, fences)	Frequent shallow earthquakes, Crust is neither created nor destroyed	*San Andreas Fault, Alpine Fault*