## **TYPE** OF METAMORPHISM

**CONTACT**---occurs typically around intrusive igneous rocks (batholiths, dikes, sills, etc.) and below extrusive igneous rocks (lava flows). <u>Heat and</u> <u>chemically active fluids are the more important agents</u> <u>of metamorphism while pressure plays a subordinate</u> <u>role.</u> Water vapor is the most abundant volatile constituent associated with magmatic activity.

**REGIONAL---**covers large areas of continental crust typically associated with mountain ranges, particularly those associated with convergent tectonic plates or the roots of previously eroded mountains. <u>Heat and pressure are the more important agents of</u> <u>metamorphism while chemically active fluids play a</u> <u>subordinate role</u>. The collision of two continental plates or the collision of island arcs with a continental plate produces the extreme compressional forces required for metamorphic changes.