Geology 261 -- Physical Geology

Exam 1 study guide

You should do fine on Exam 1 if you study the following:

the scientific method age of the Earth (Bishop Ussher's date and today's accepted date) catastrophism & uniformitarianism...who were the players, and the basis for each argument. conditions necessary for concoidal fracture different chemical bond types in minerals main elements that comprise the Earth's crust relationship between size of atom and charge relationship between size of atom and bond strength the basic building block of all silicate minerals basic structures of common silicates: olivine, pyroxene, amphibole, mica, quartz & feldspars main parts of the earth (core, mantle, crust) and what comprises them facts about ocean crust and continental crust behavior of seismic waves below the Earth's surface and what boundaries they define facts about the three types of plate boundaries modern-day examples of plate boundaries variation in silica content with magma type variation of temperature with magma type what "part" of the Earth experiences partial melting to produce the three magma types relationship between magma type and plate tectonics the two main controls on explosivity of volcanos relationship between magma composition, silica polymerization and magma viscosity

Terms:

mineral dike sill stock batholith xenolith cinder cone shield volcano caldera pillow lavas polymerization