

striations - Earth's magnetic field: - Paleomagnetism #1: Apparent
 Polar Wander - Paleomagnetism #2: Magnetic Reversals - Plate
 tectonics - Divergent Plate Boundaries - Convergent Plate Boundaries
 - Convergent Plate Boundaries (subduction vs collision zones) -
 Strike-slip (transform) plate Boundaries - Mantle Plume (hotspot)
 tracks - Plate velocities - What drives plate tectonics? - Mantle
 Convection - Tectonic (lithospheric) processes: Slab Pull, Ridge Push -
 Rising or descending limbs of convection cells (relation to hotspots &
 subduction zones) - Mineral identification - Mineral classification
 (silicate vs non-silicate) - Silicate Minerals - Silica Tetrahedron - Five
 common silicate structures (& six silicate minerals to know- see slides
 for names, silicate structures, & composition as indicated in red) -
 Felsic vs mafic minerals - Silica Tetrahedron - Six major igneous rocks
 - How magma is produced in the mantle by melting peridotite - Phase
 diagram - Geothermal Gradient - Decompression melting - Hotspot
 melting - Subduction zone melting - How basaltic melt changes in
 crustal magma chambers - Viscosity due to temperature & silica
 content - How basaltic melt changes in crustal magma chambers -
 Viscosity due to temperature & silica content - Mineral stability Silicate
 minerals Differential weathering - Sedimentary rocks & sedimentary
 processes - Sedimentary rocks - Detrital (clastic) - Chemical -
 Organic/Biogenic - More on Detrital sediments & rocks - More on
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