

## **Physical Weathering**

Wind

Water

Earthquakes

Landslides

Freeze/Thaw Cycles

Growth of Ice, Salt Crystals

Growth of Plant Roots

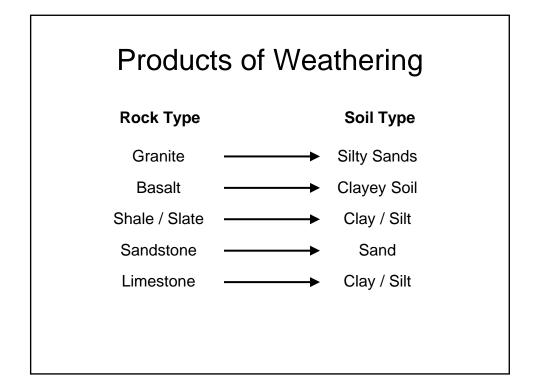
### **Chemical Weathering**

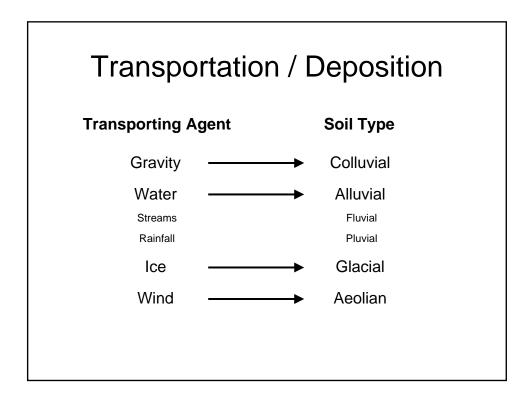
Oxidation - chemical addition of oxygen

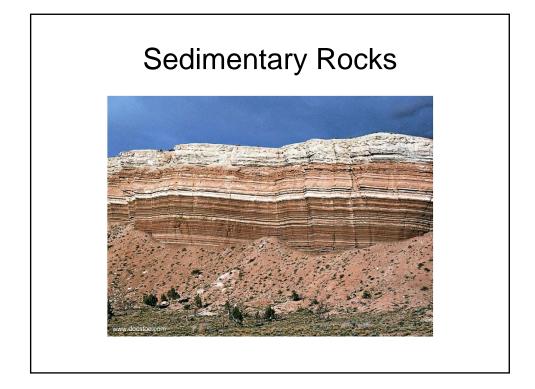
Reduction – addition of hydrogen or removal of oxygen

Hydration - chemical addition of water

Carbonation – dissolution by carbonic acid







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# **Biochemical Sedimentary Rocks**

Formed by biological / chemical processes

Limestone –  $CaCO_3$  deposited by organic or inorganic processes Chalk –  $CaCO_3$  deposited by single-cell animals in ocean environment

 $\mbox{Gypsum}-\mbox{CaSO}_4$  precipitate formed by the evaporation of seawater

Rock salt – NaCl precipitate formed by the evaporation of seawater

Coal - Carbon formed from decomposing plant and animal matter

# Metamorphic Rocks

Produced when rocks are changed by combination

of heat, pressure, shearing stresses

Granite → Gneiss

Basalt → Schist

Shale  $\rightarrow$  Slate  $\rightarrow$  Schist

Sandstone  $\rightarrow$  Quartzite

Limestone → Marble

