***SOILS***

2 labs

* Profiles & Horizons classification & Rates of weathering/sfc area
* % sand/silt/clay

Soils Quiz

* Using a textural triangle
* Profiles & horizons

***WATER CYCLE***

* Diagram
* Phase-change diagram
* Watersheds
  + Ches Bay Watershed
    - Mapping activity
    - Ches Bay report card
    - Riparian Buffers

***ROCK CYCLE***

* Processes
* Raw materials
* Geo Rx Groups

***Summary ACTIVITY***: Relationship of Water & Rock cycles to soil formation

* + 1. Remember the factors that affect soil formation/development (the most important is CLIMATE)

***History of the Environmental Movement through the “key players”***

* The most influential people and how they influenced environmental policies in the US and abroad
* Library research activity
* Time-line activity

***Laws, Regulations, & Regulatory Agencies***

* History of key environmental legislation and governmental agencies
* Library Research Activity
* Time-line Activity
  + Superimpose w/Key Players

**KEY ISSUES**

* The most pressing environmental problems
  + Invasive species – Community Service Project Idea Work at Rust
  + Storm water management – Community Service Project Idea – riparian buffer at Fox Ridge Park storm drain
  + Air & Water Pollution
    - EPA guidelines for testing
    - Water chemistry & macro studies
  + Species Extinction
    - CETI
    - International Laws
    - Poaching
    - Habitat fragmentation/degradation/Loss
      * Loudoun County & Leesburg Map comparisons for forested/developed (permeable vs impermeable) surfaces/area