***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