Warm-Up: Mon 4/21

- ***Write What You Know!***
  - *Write everything you know about the prompt below for five minutes, try for at least 3-4 complete sentences.*
- Write a story about a granite rock that first becomes a sedimentary rock, then a metamorphic rock, and then an igneous rock again. What is happening to this rock as it moves through the rock cycle?

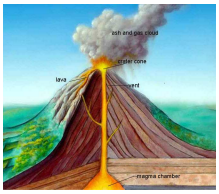
4/21/2014	Rock Cycle & Review Notes
Major Key Term	definition in own words
Key Term	• definition in own words • facts • pictures
Key Term	• definition in own words • facts • pictures

Rock Cycle

- **Rock Cycle**: a series of processes on Earth's surface and inside the Earth that slowly change rocks from one kind to another

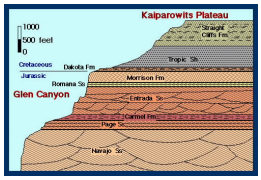
Igneous Rocks in the Cycle

- When plates move apart, magma is forced upward and forms volcanoes . . . new igneous rock!
- When plates collide rocks are forced deep into the Earth, and melt into magma which can cool into igneous rock.



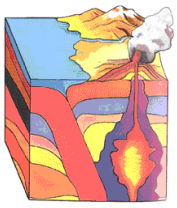
Sedimentary Rocks in the Cycle

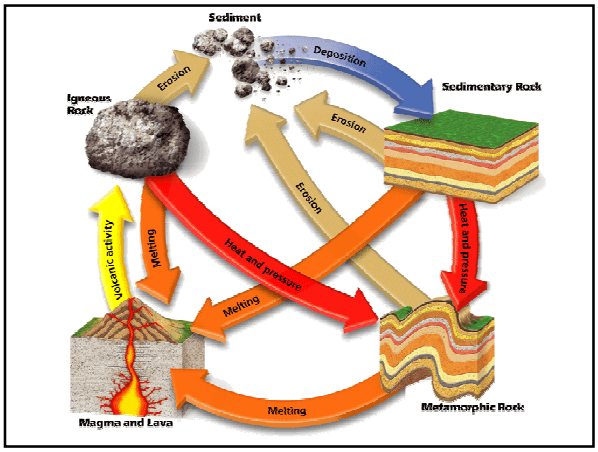
- When plates collide, rocks can be forced up into mountain ranges, then weathering and erosion begins, creating loose sediment
- This loose sediment can be compacted and cemented into new sedimentary rocks



Metamorphic Rocks in the Cycle

- When plates collide, rocks can be forced down deep into the mantle where heat and pressure can change them into metamorphic rock





Review: Rocks

- Classify Rocks by
  - Composition & Color (what minerals or other substances)
  - Texture (grain size, shape, pattern)
- Rock-forming minerals: about 20 common minerals that make up most rocks

Review: Igneous

- Igneous Rocks
  - Origin (intrusive or extrusive)
  - Texture (size & shape of crystal grains)
  - Composition (high or low silica)

Review: Sedimentary

- How Sedimentary Rocks Form:
  - Weathering & erosion forms sediment
  - Deposition of sediment
  - Compaction of sediment
  - Cementation of sediment
- Types
  - clastic, organic, chemical

Review: Metamorphic

- Heat & pressure can change ANY rock into metamorphic
- Types
  - foliated and nonfoliated