



The Rock Cycle

Thinking about relationships among
the major rock groups



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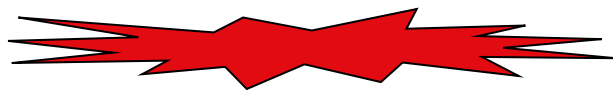
Major Rock Groups

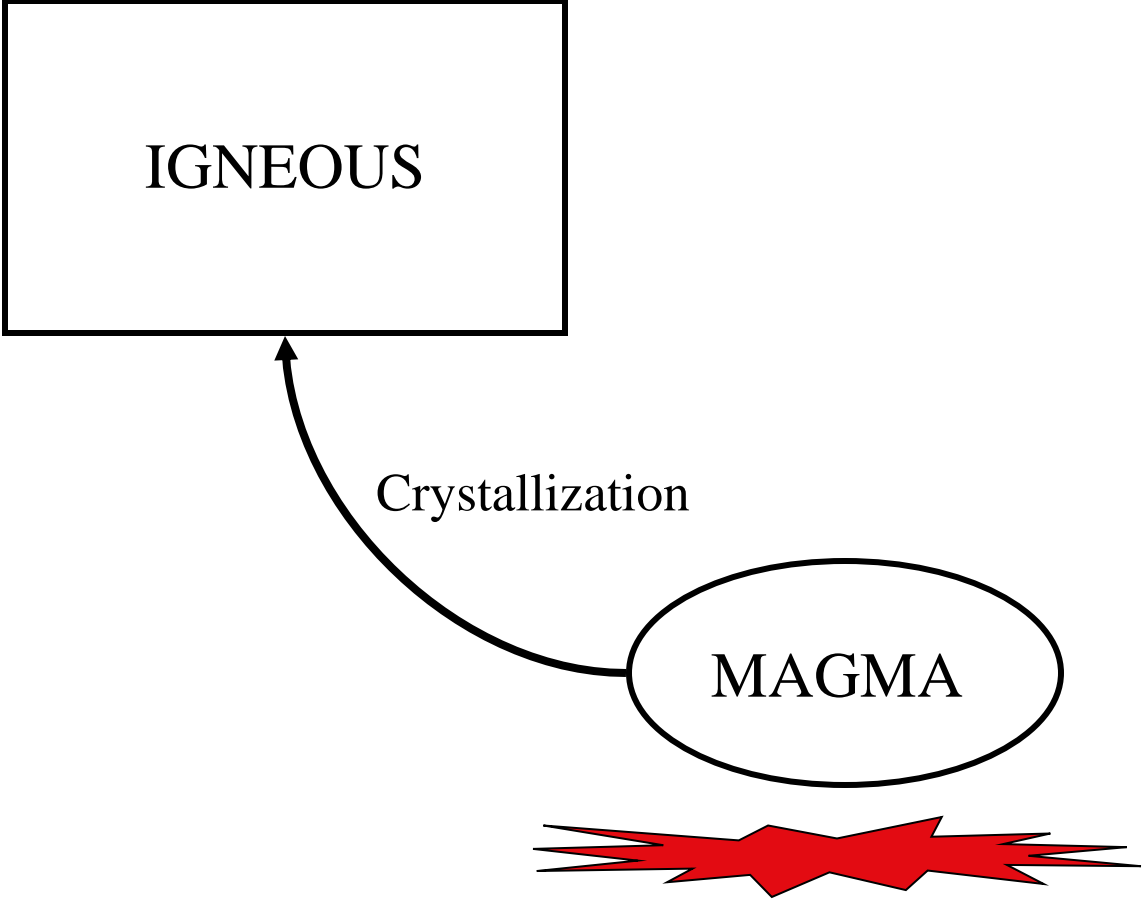
- Igneous
 - Formed from a melt (molten rock)
 - *Plutonic* (intrusive): slow cooling and crystallization
 - *Volcanic* (extrusion): quick cooling at the surface
- Sedimentary
 - Formed at the Earth's surface
 - *Clastic* (Mineral Fragments or grains, clays)
 - *Chemical* (crystalline chemical/biochemical precipitates)
- Metamorphic
 - Changed by pressure, temperature and fluids.

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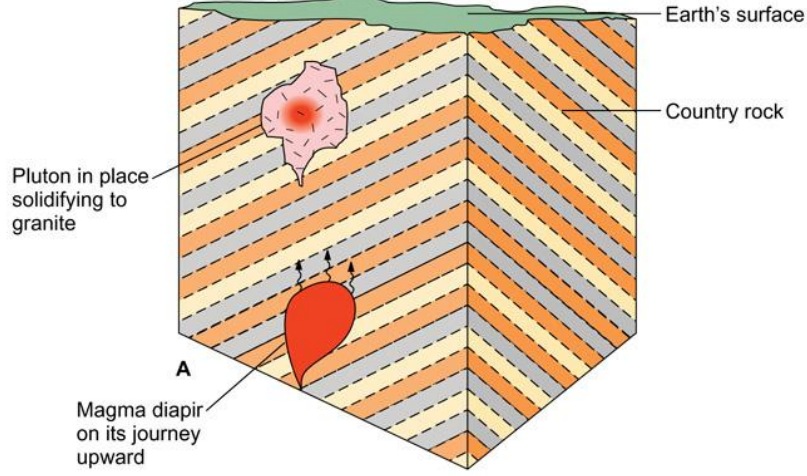
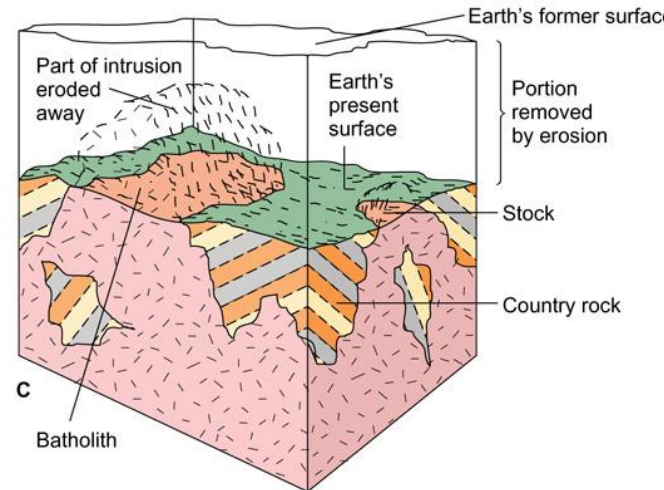
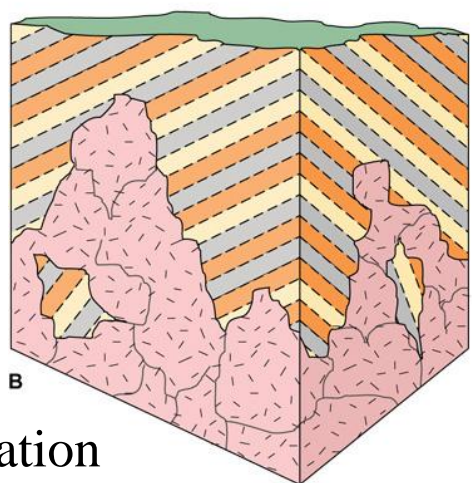


MAGMA



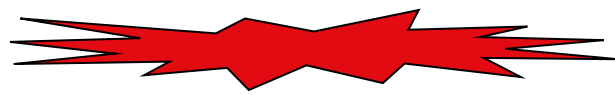


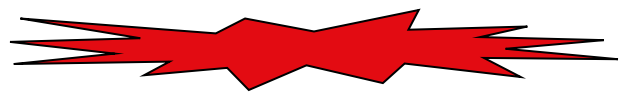
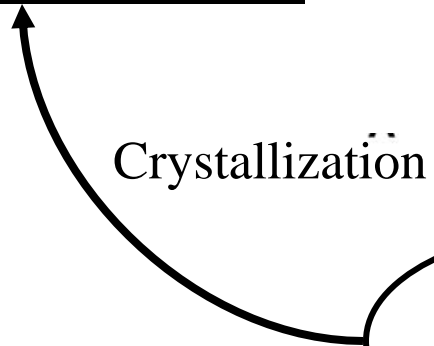
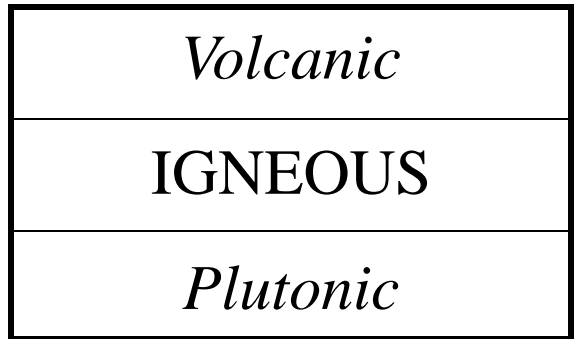
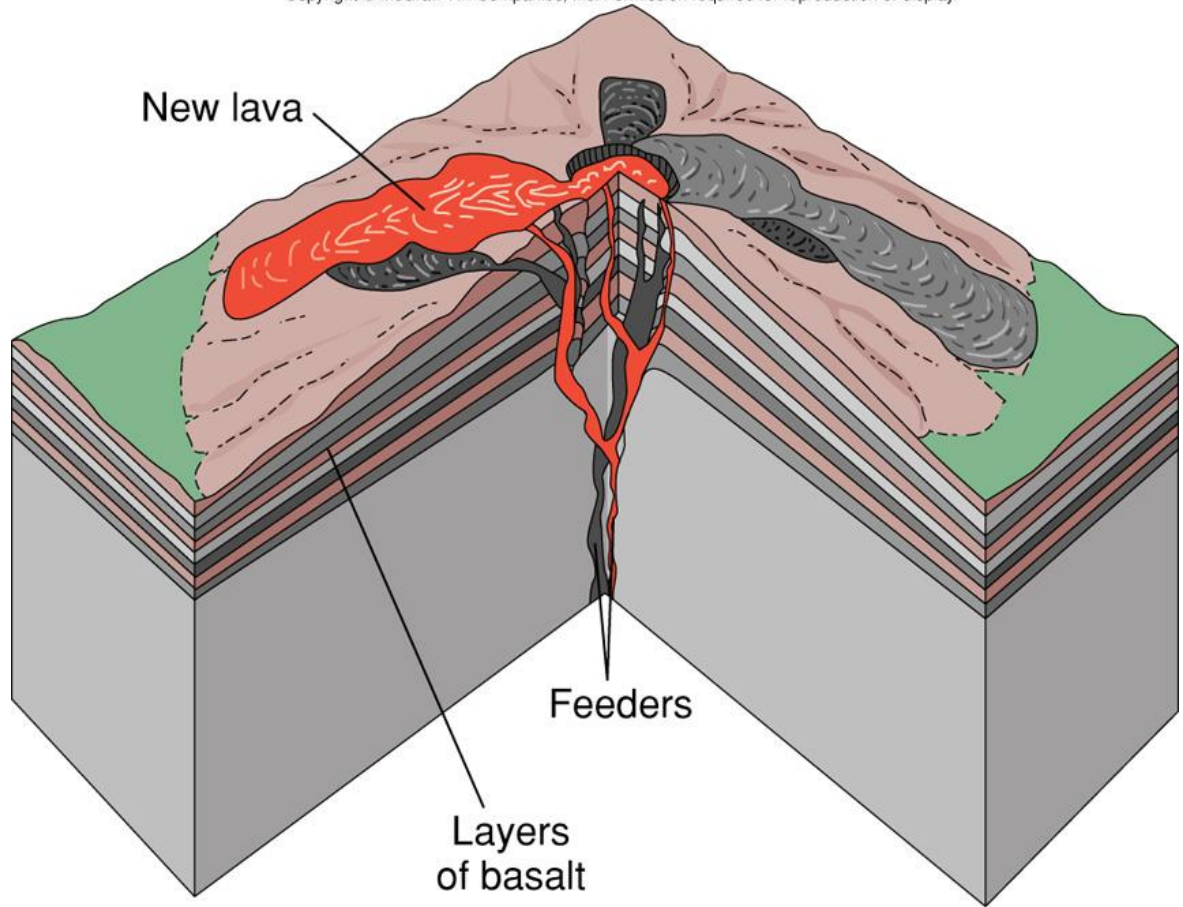
IGNEOUS
Plutonic

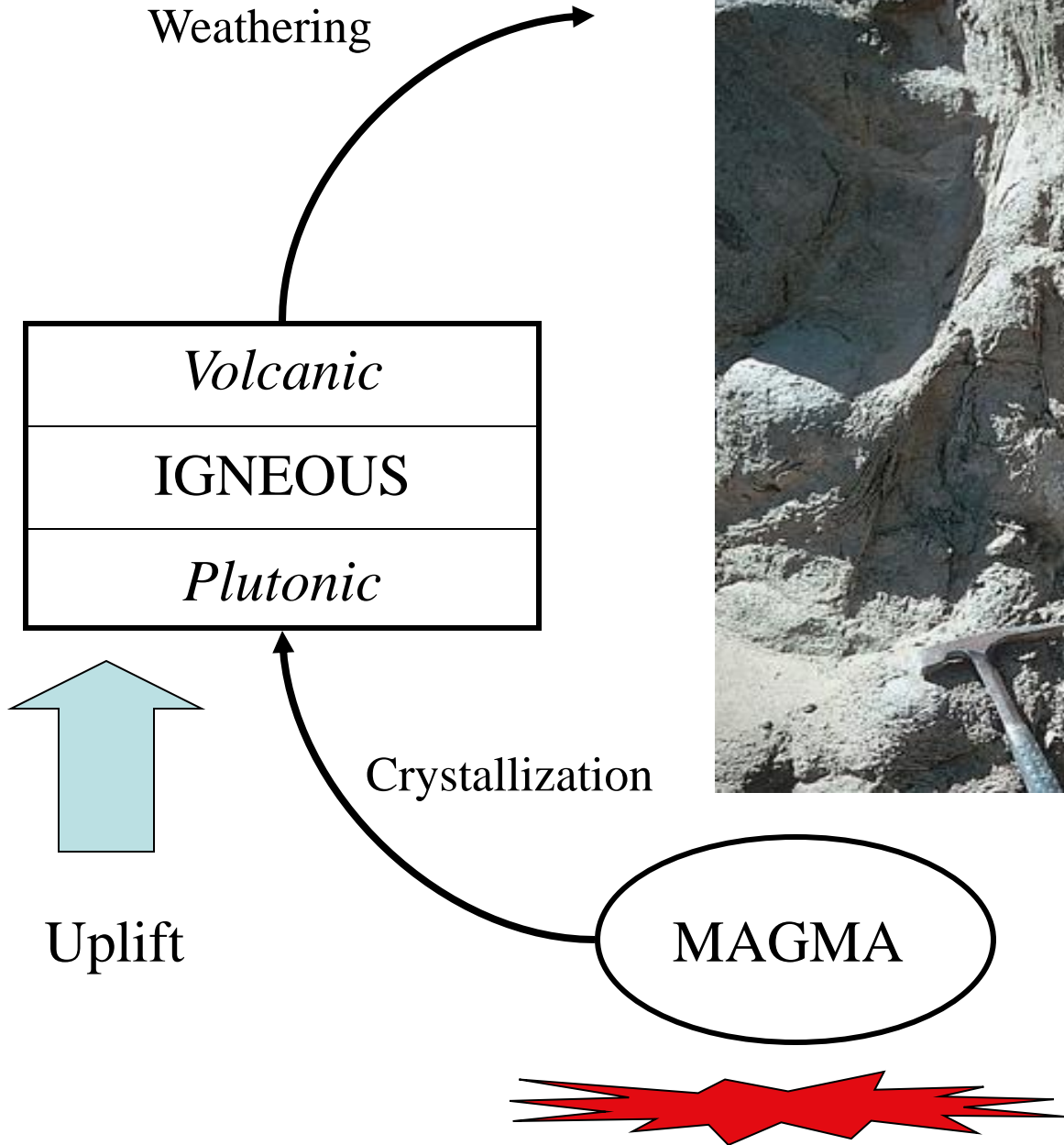


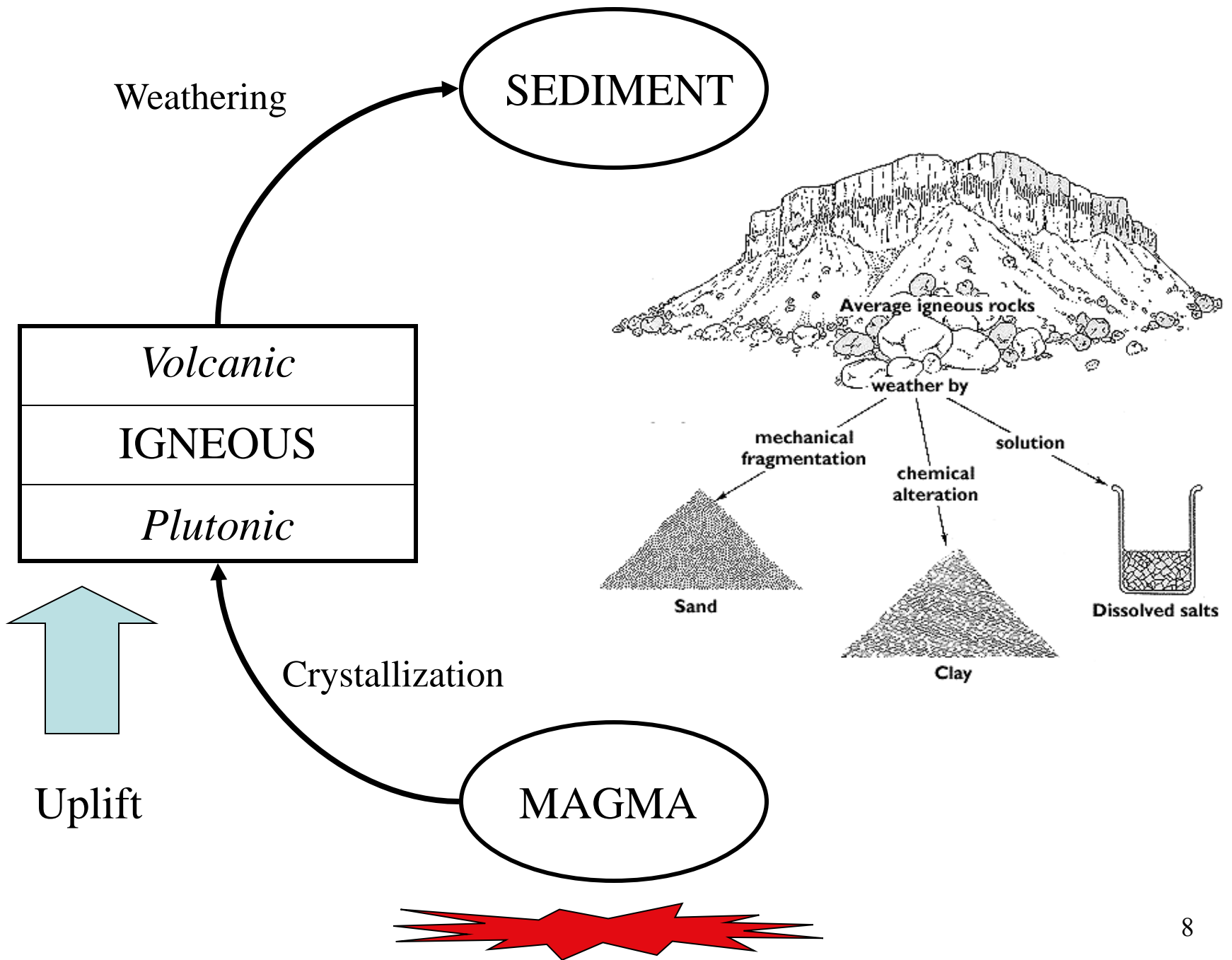
Crystallization

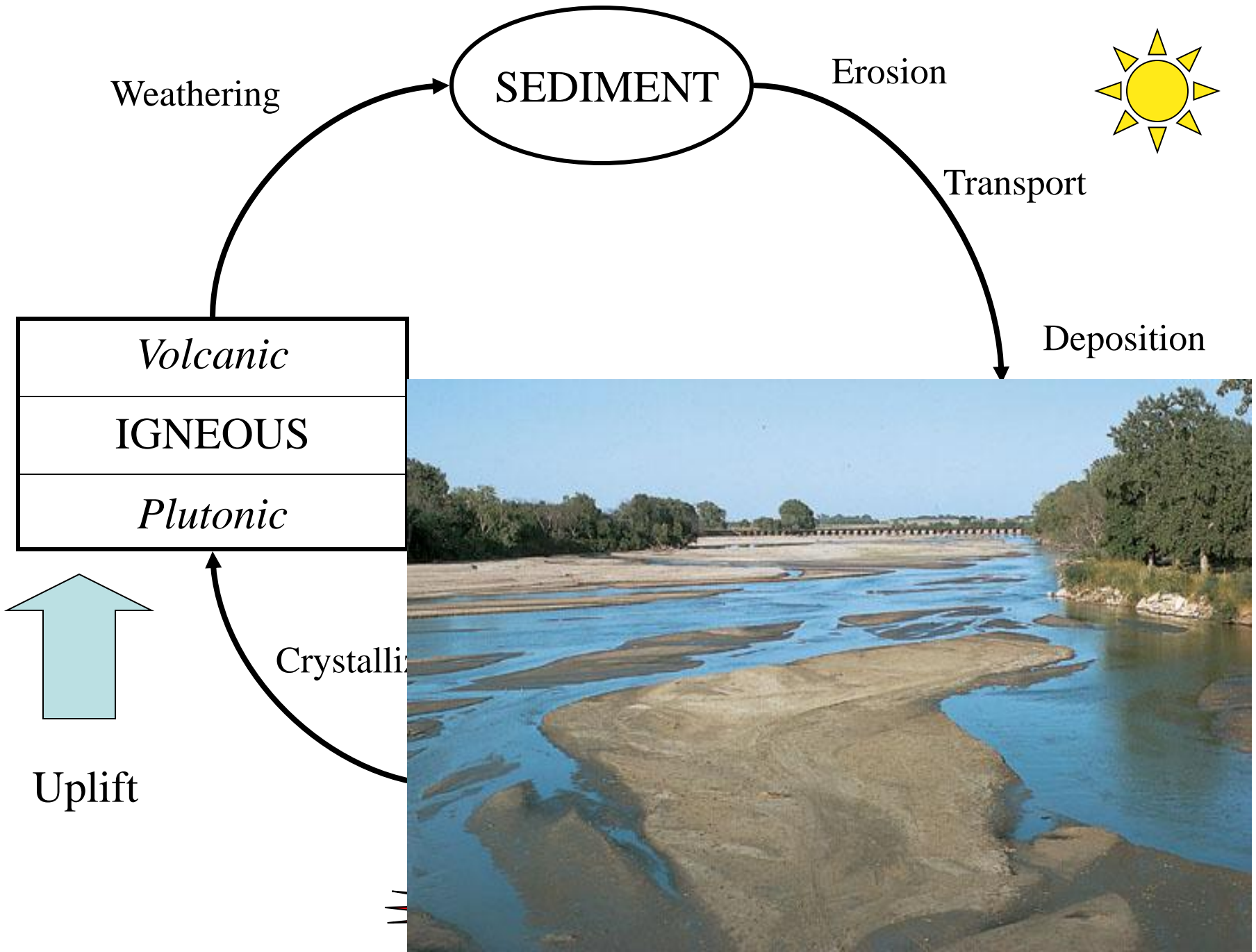
MAGMA

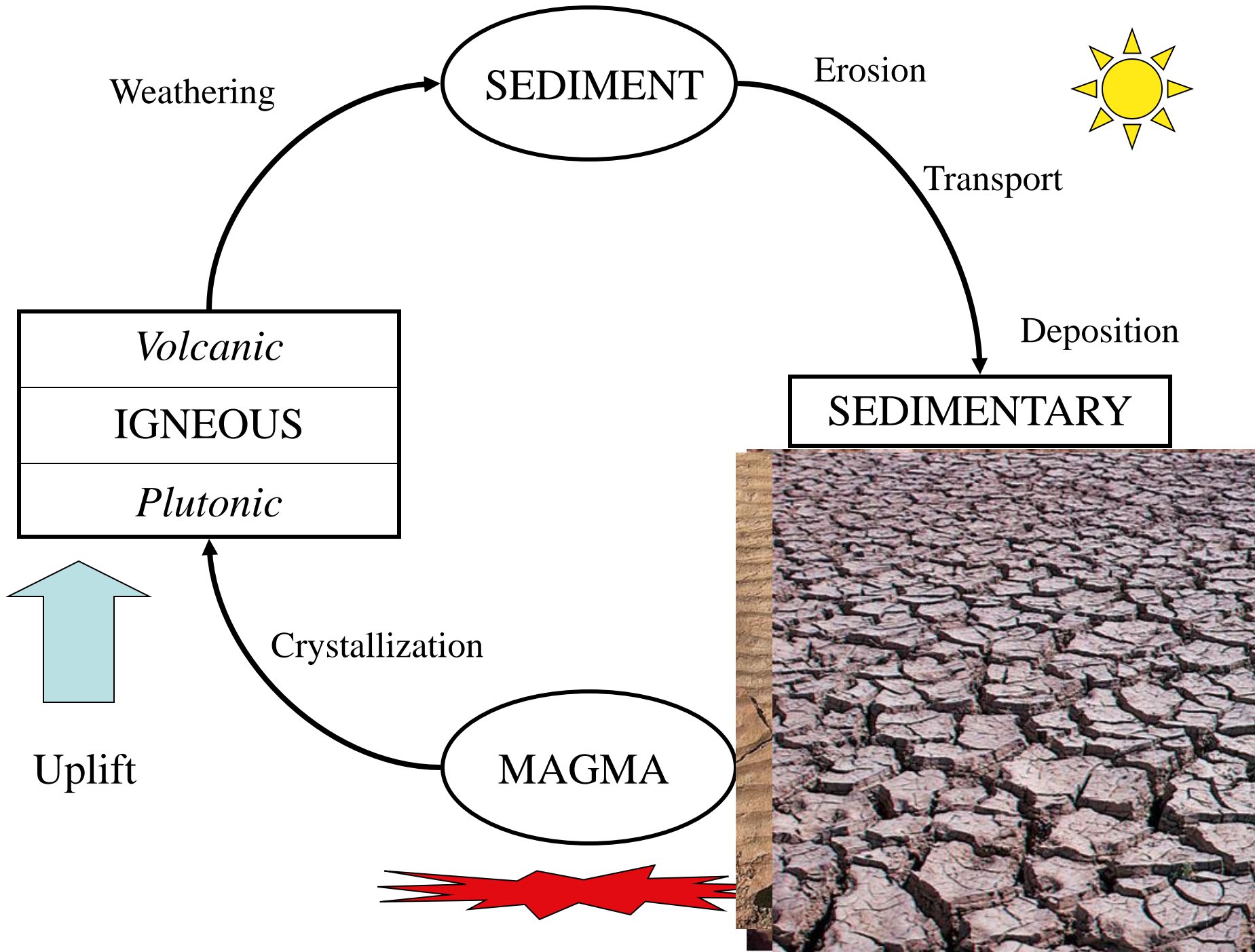


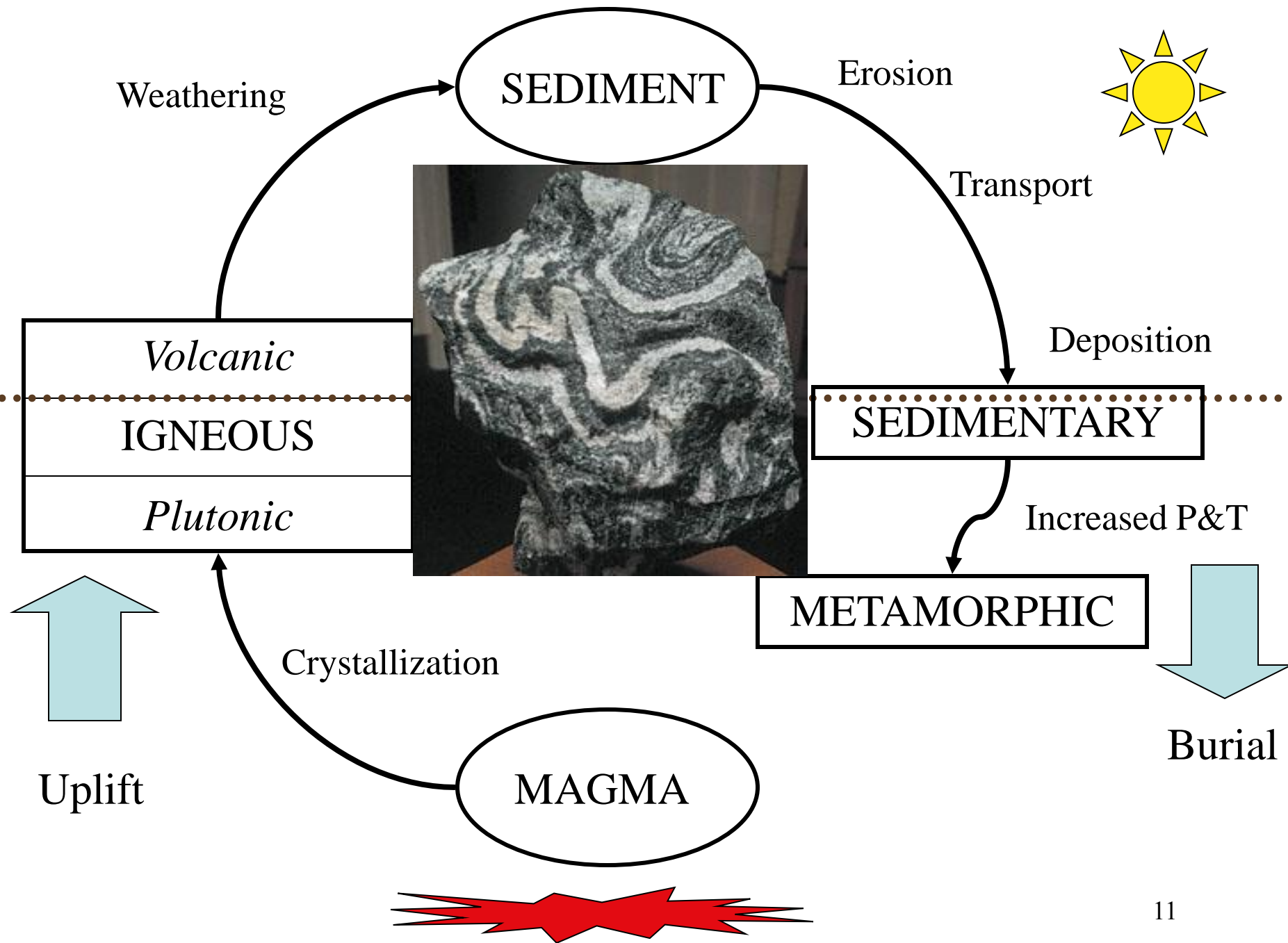


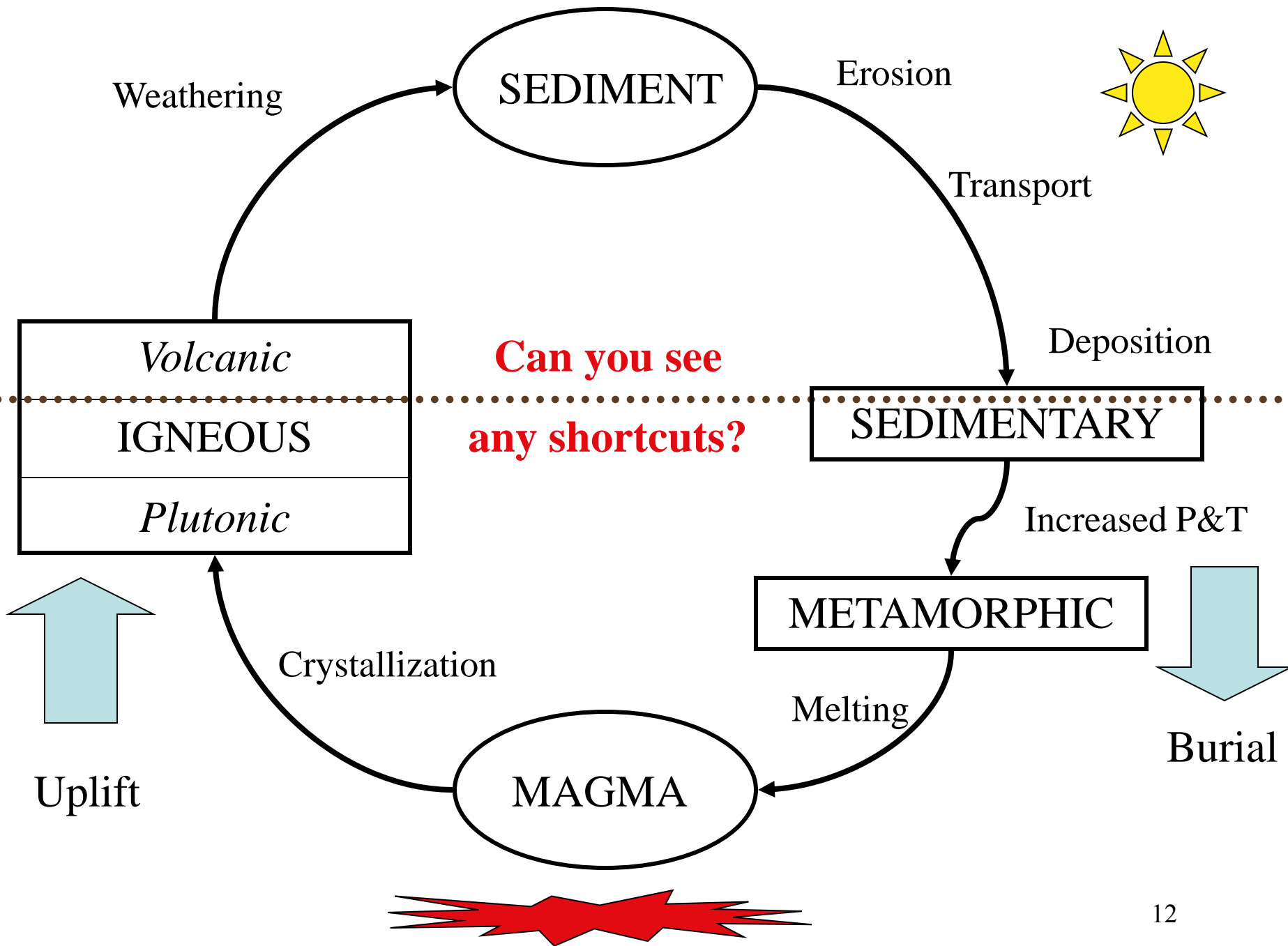


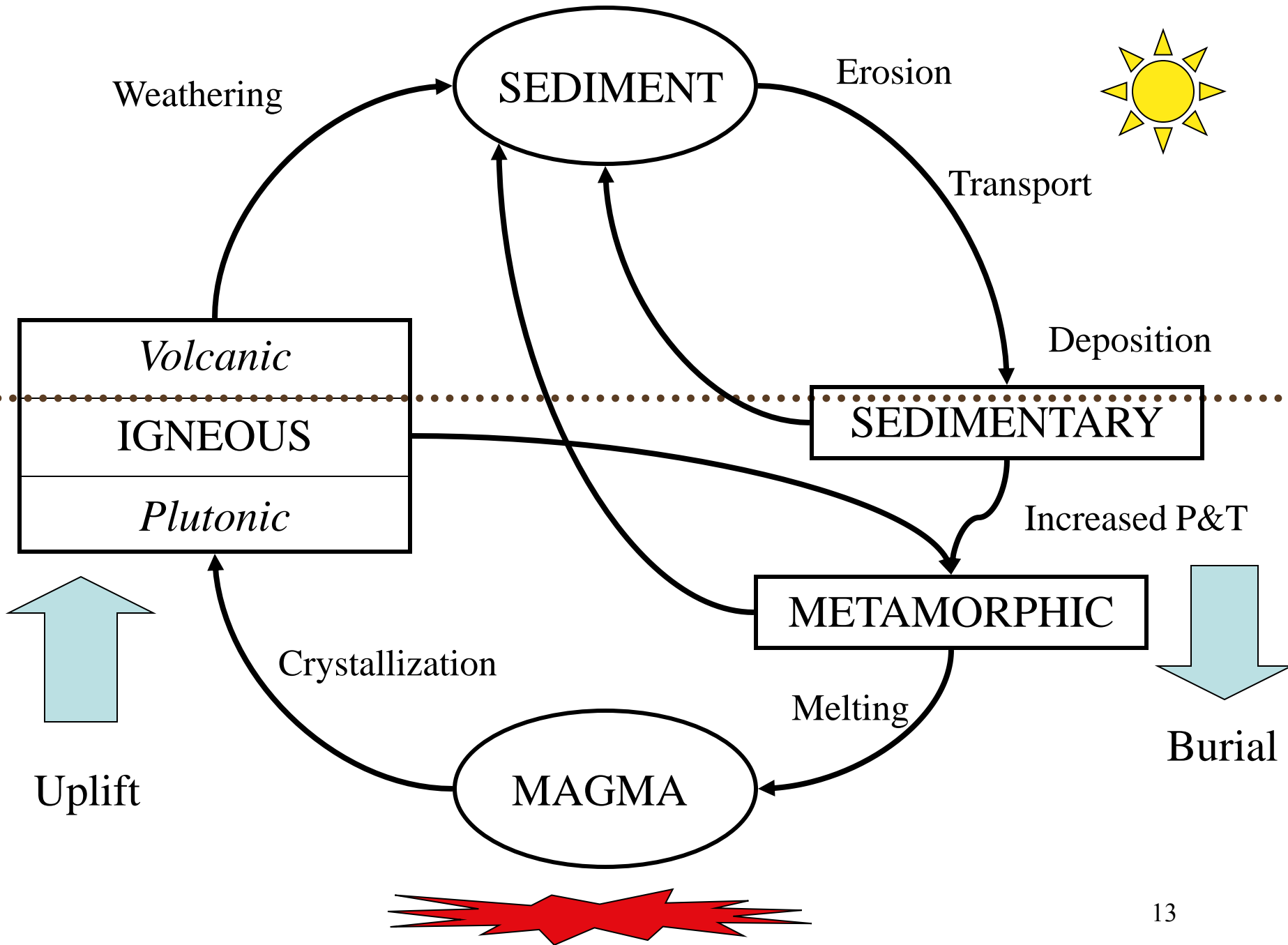








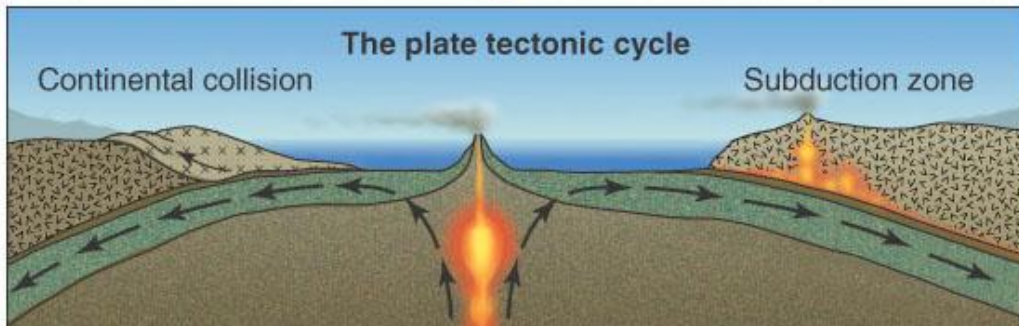
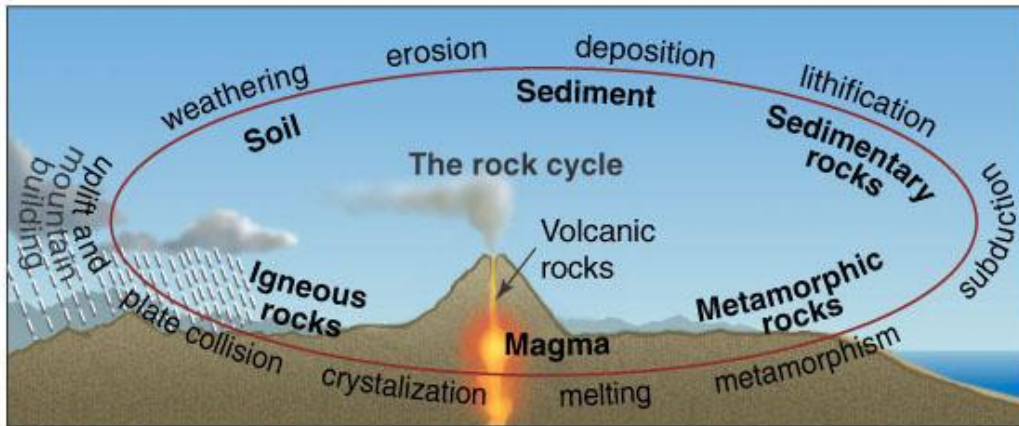
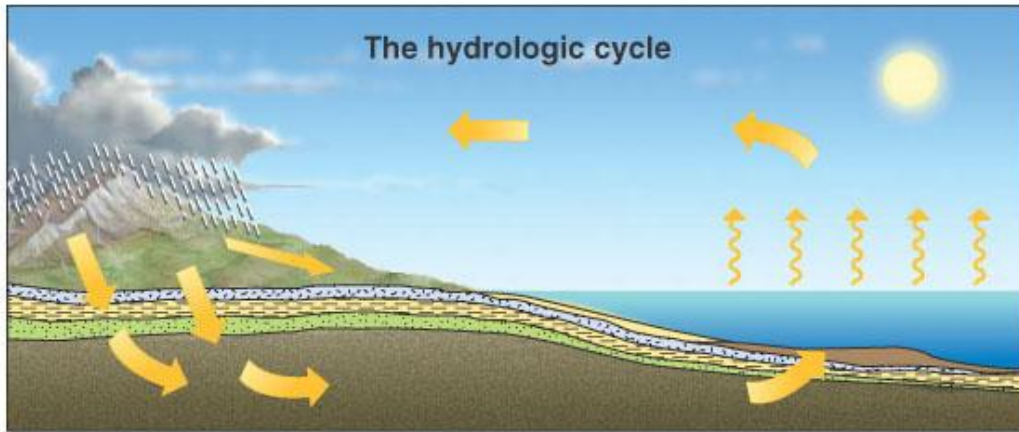




Primary energy sources



In Conclusion...

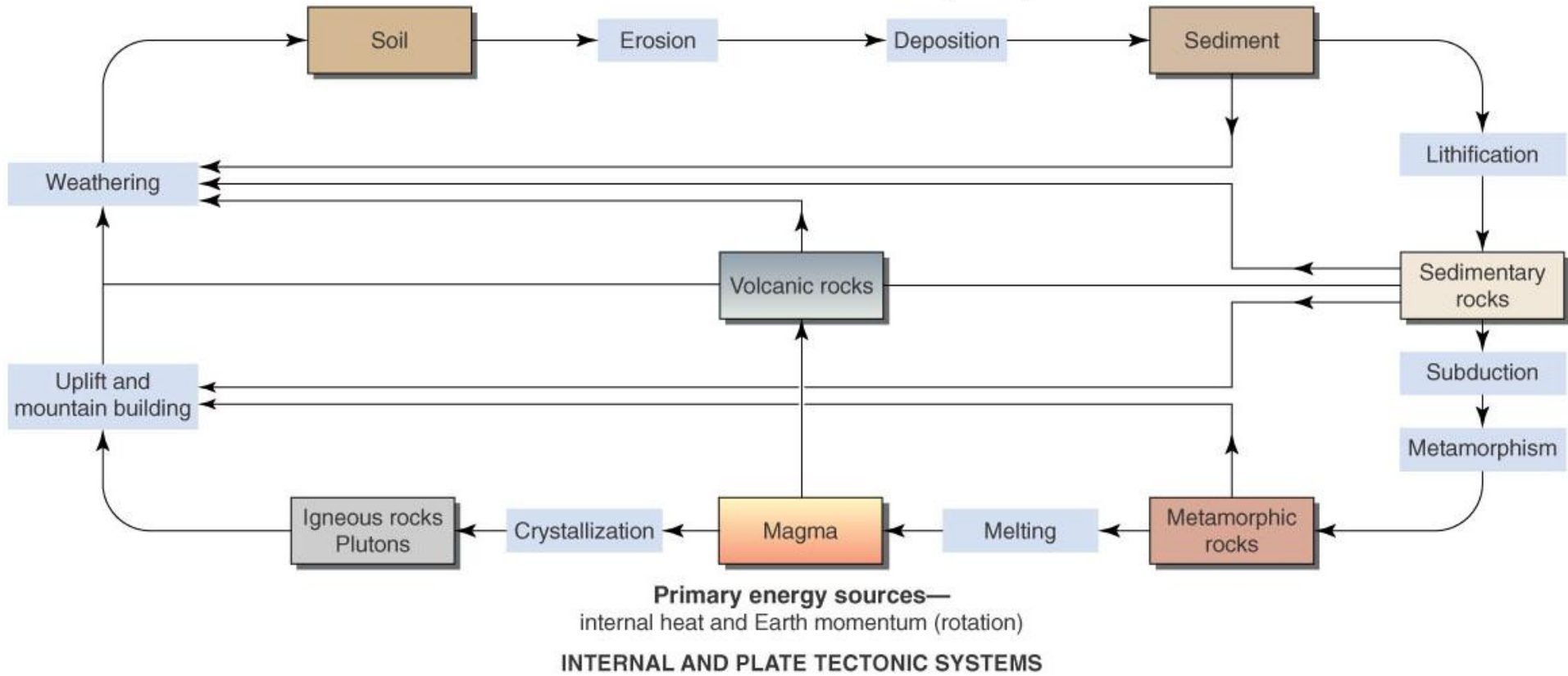


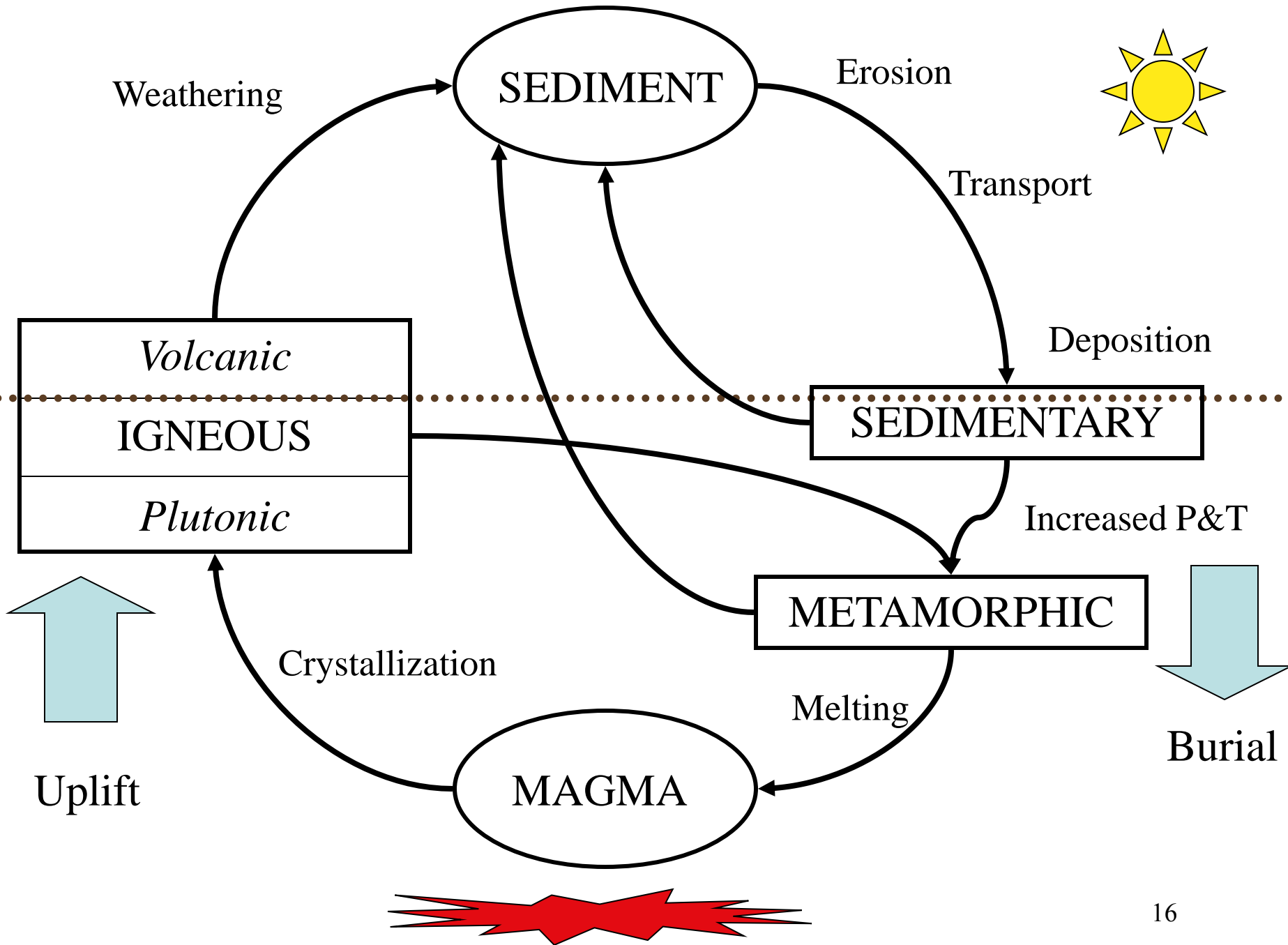
- The rock cycle demonstrates the relationships among the three major rock groups
- It is powered by the interior heat of the Earth
- As well as earth's momentum and...
- The energy from the sun
- It involves processes on the Earth's surface as well as the Earth's interior
- It connects the "hydrologic cycle" with the "tectonic cycle".

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PHYSICAL CLIMATE SYSTEM BIOGEOCHEMICAL CYCLES

Primary energy sources—
solar radiation and Earth momentum (rotation)





Watch the 2 videos posted on koopsterscience.weebly.com about the
rock cycle

→ Then add notes to your graphic organizer

→ There will be a quiz tomorrow about Rock Cycle and Plate
Tectonics.