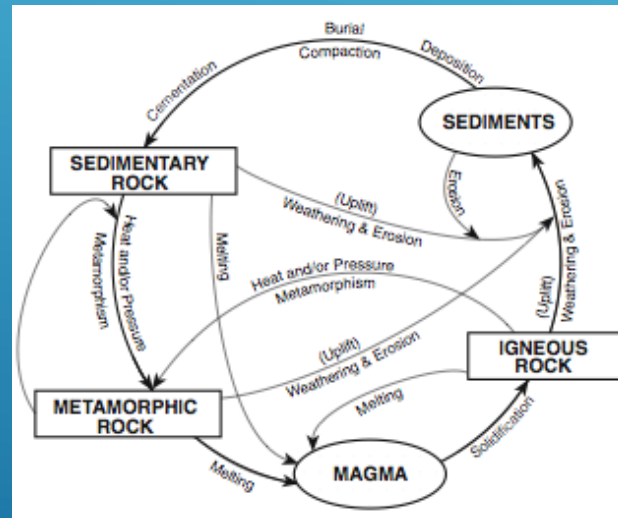


First year of Geomatics Department
Engineering Geology 2018
Lecture 5 (1)

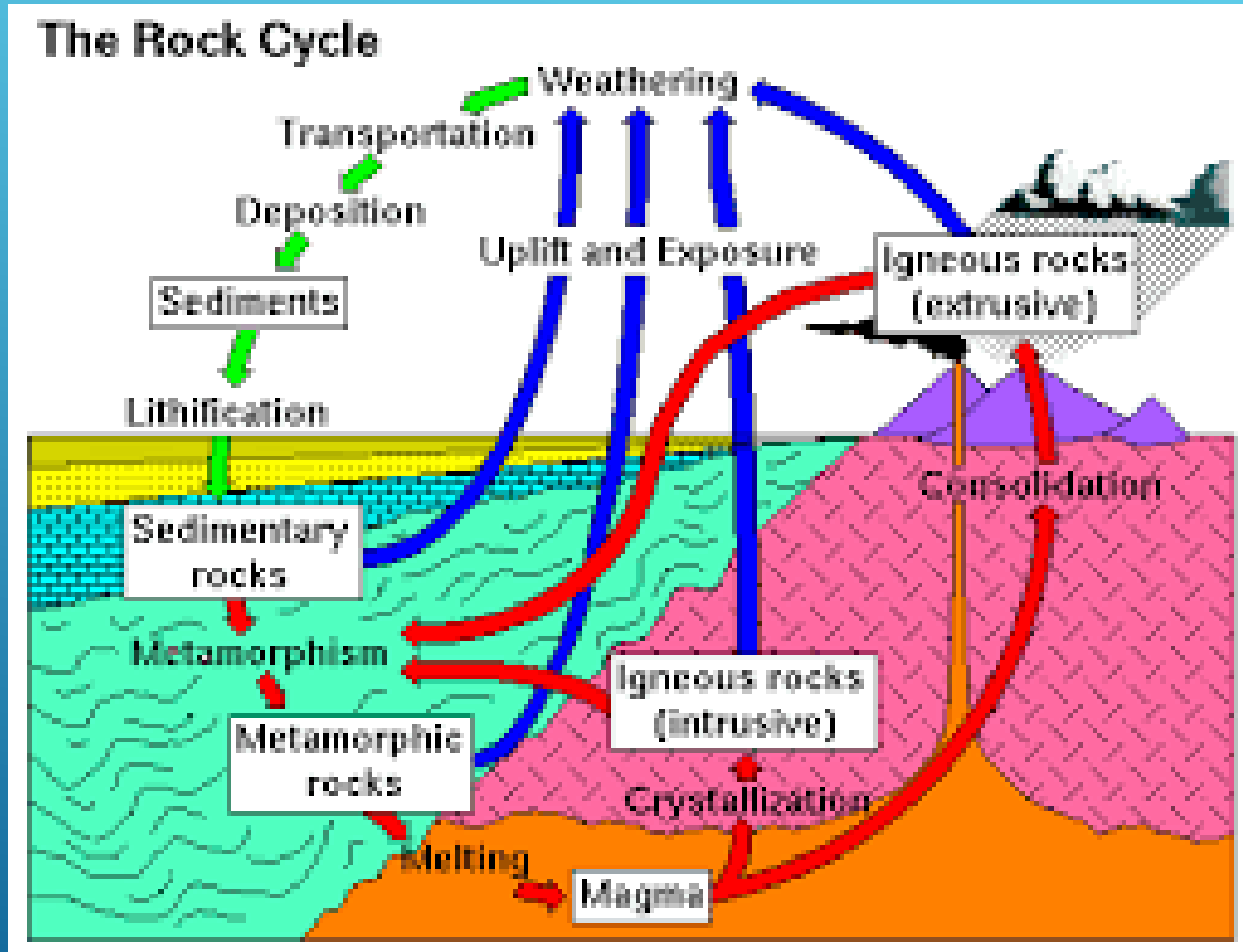
THE ROCK CYCLE



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THE ROCK CYCLE

How are rocks classified?



How are rocks classified?

- By their origin (the way they are formed)



Major Rock Groups

□ Sedimentary

- Formed at the Earth's surface
- *Clastic* (Mineral Fragments or grains, clays)
- *Crystalline* (chemical precipitates and evaporites)
- *Bioclastic* (formed organically from shells or plants)

□ Igneous

- Formed from magma (molten rock)
- *Plutonic* (intrusive): slow cooling, coarse/very coarse crystals
- *Volcanic* (extrusion): quick cooling at the surface, glassy/fine crystals

□ Metamorphic

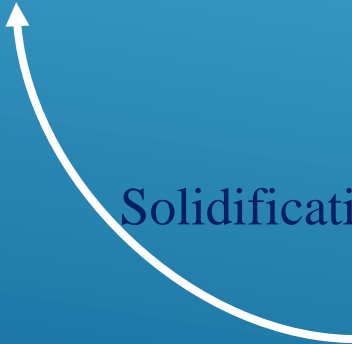
- Changed by heat and pressure

IGNEOUS

Solidification

MAGMA

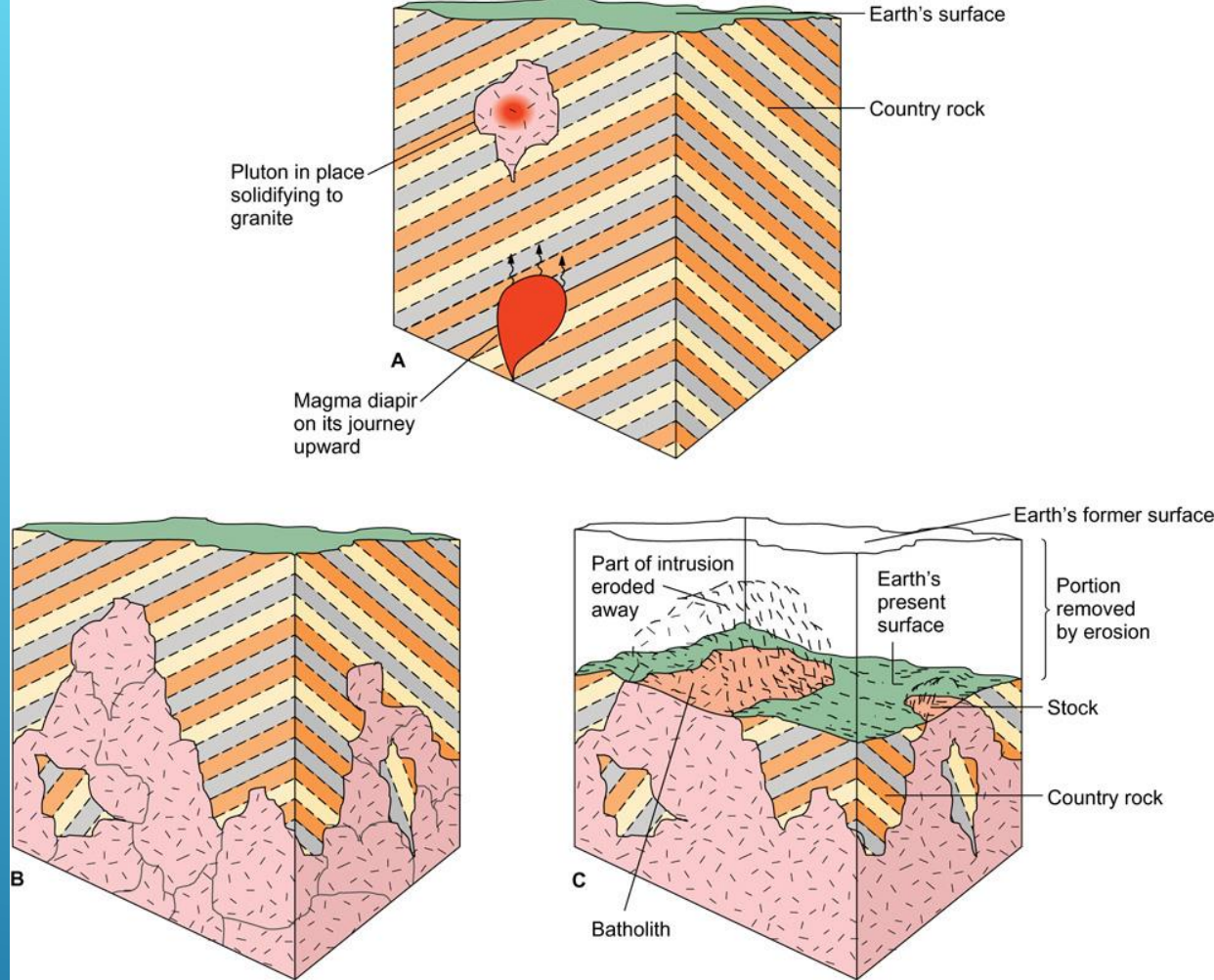
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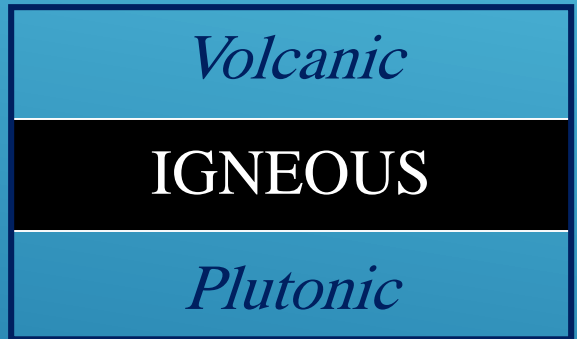
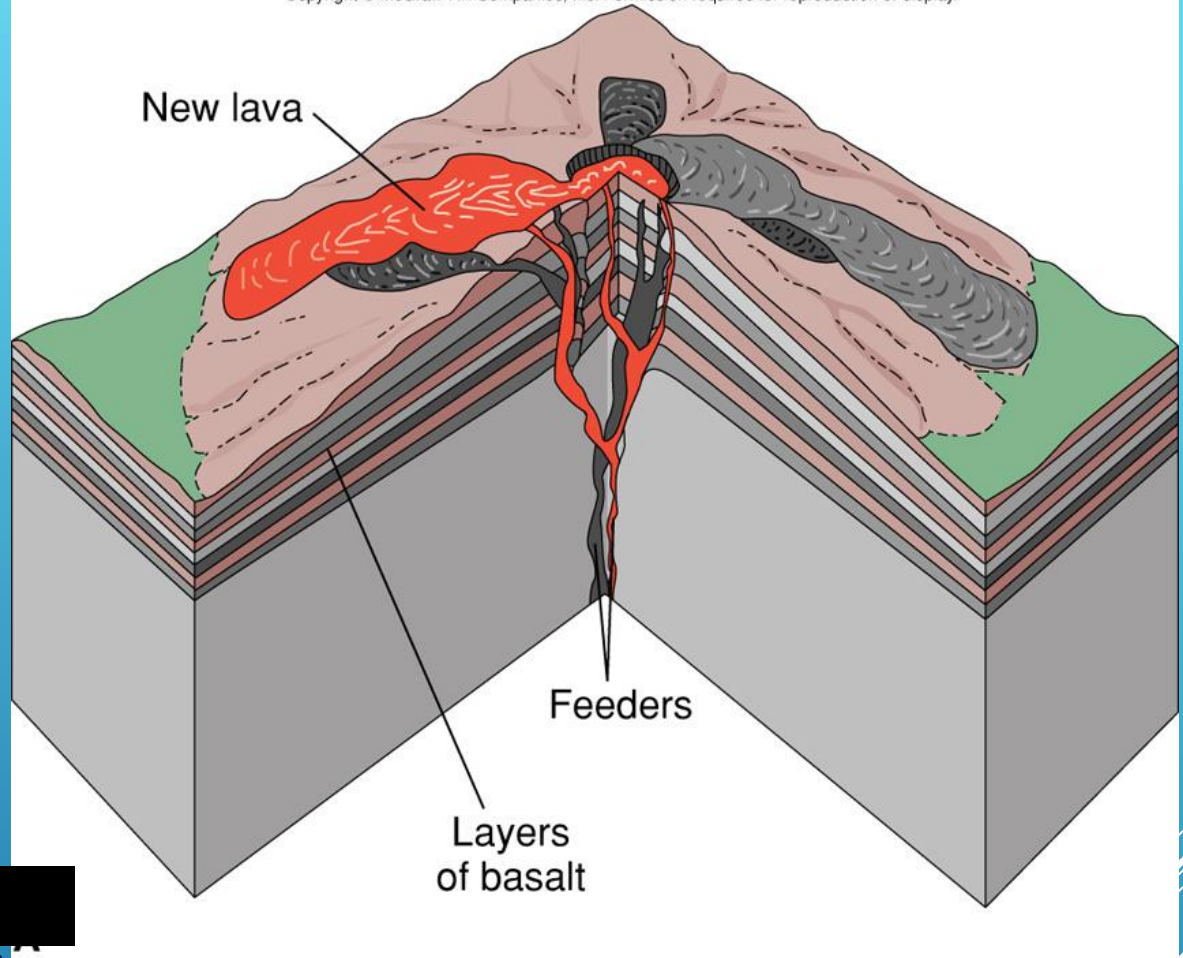


IGNEOUS
Plutonic

Solidification

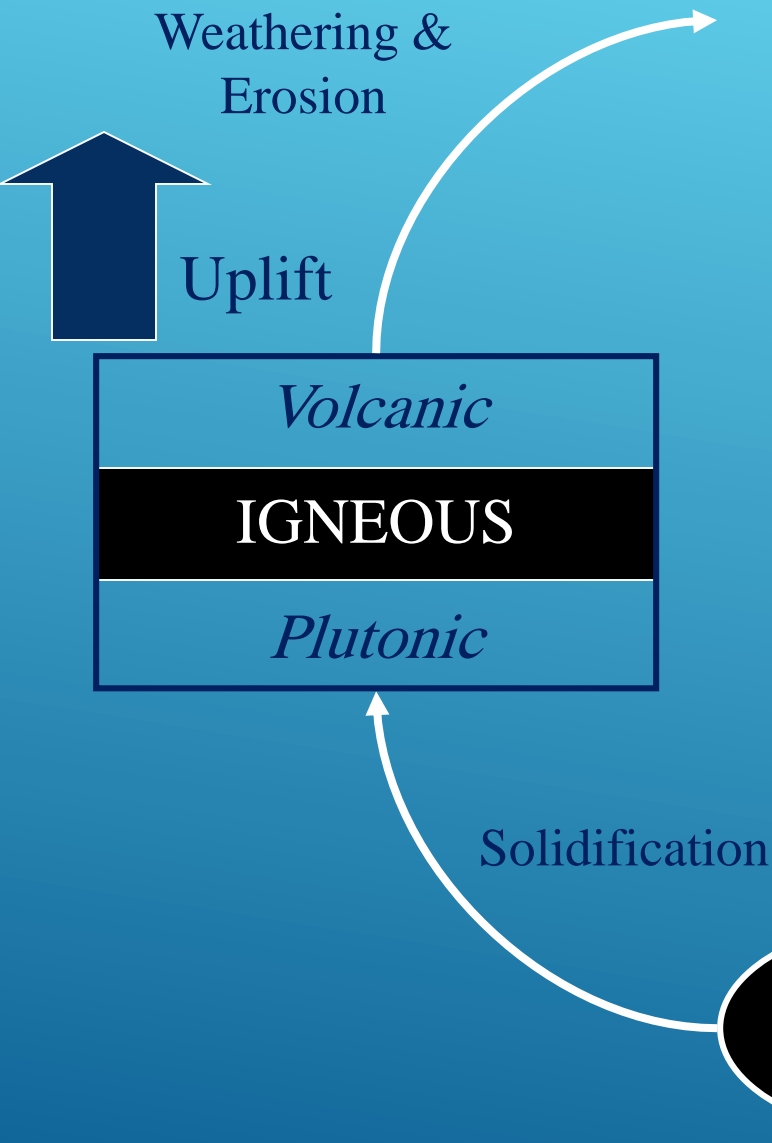
MAGMA





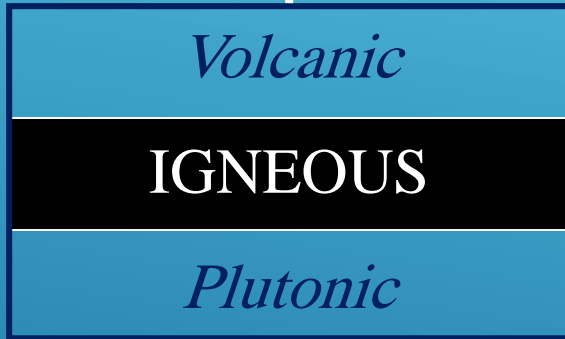
Solidification





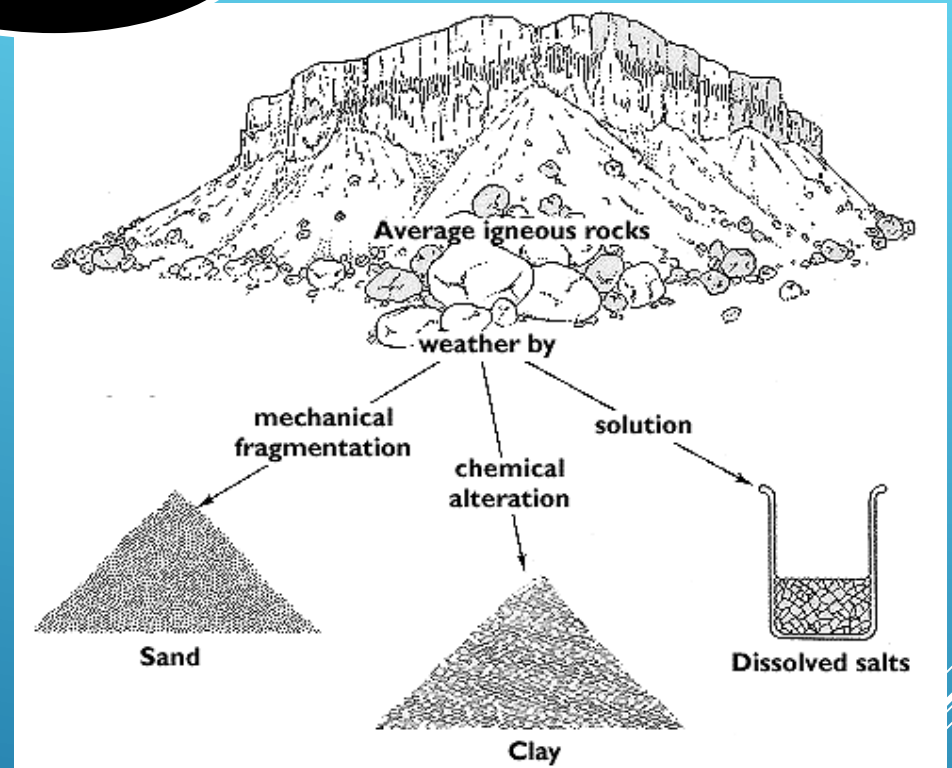
SEDIMENT

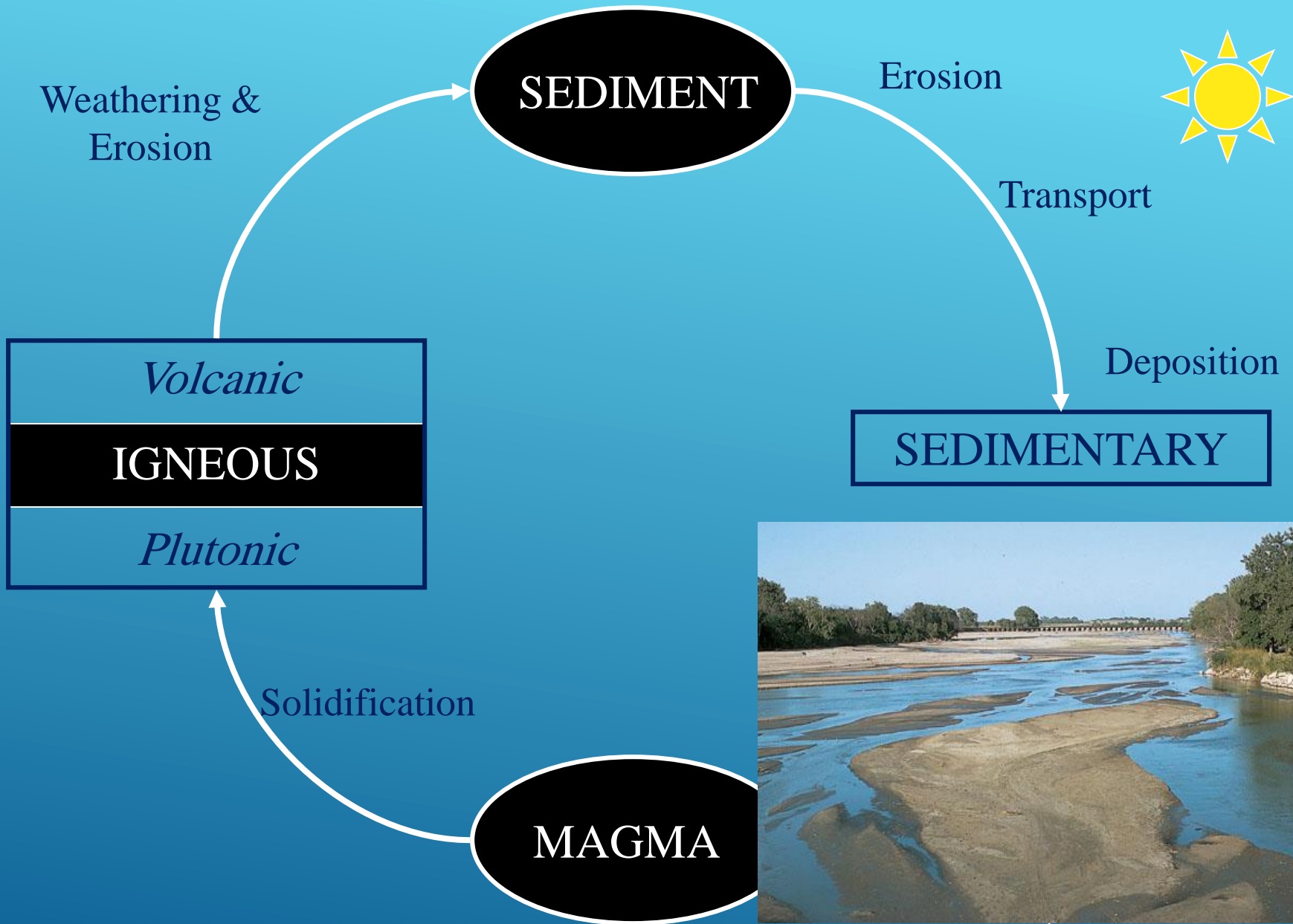
Weathering &
Erosion

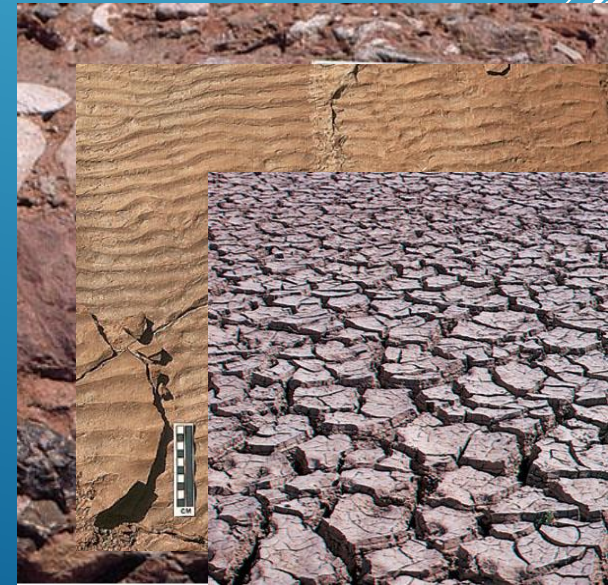
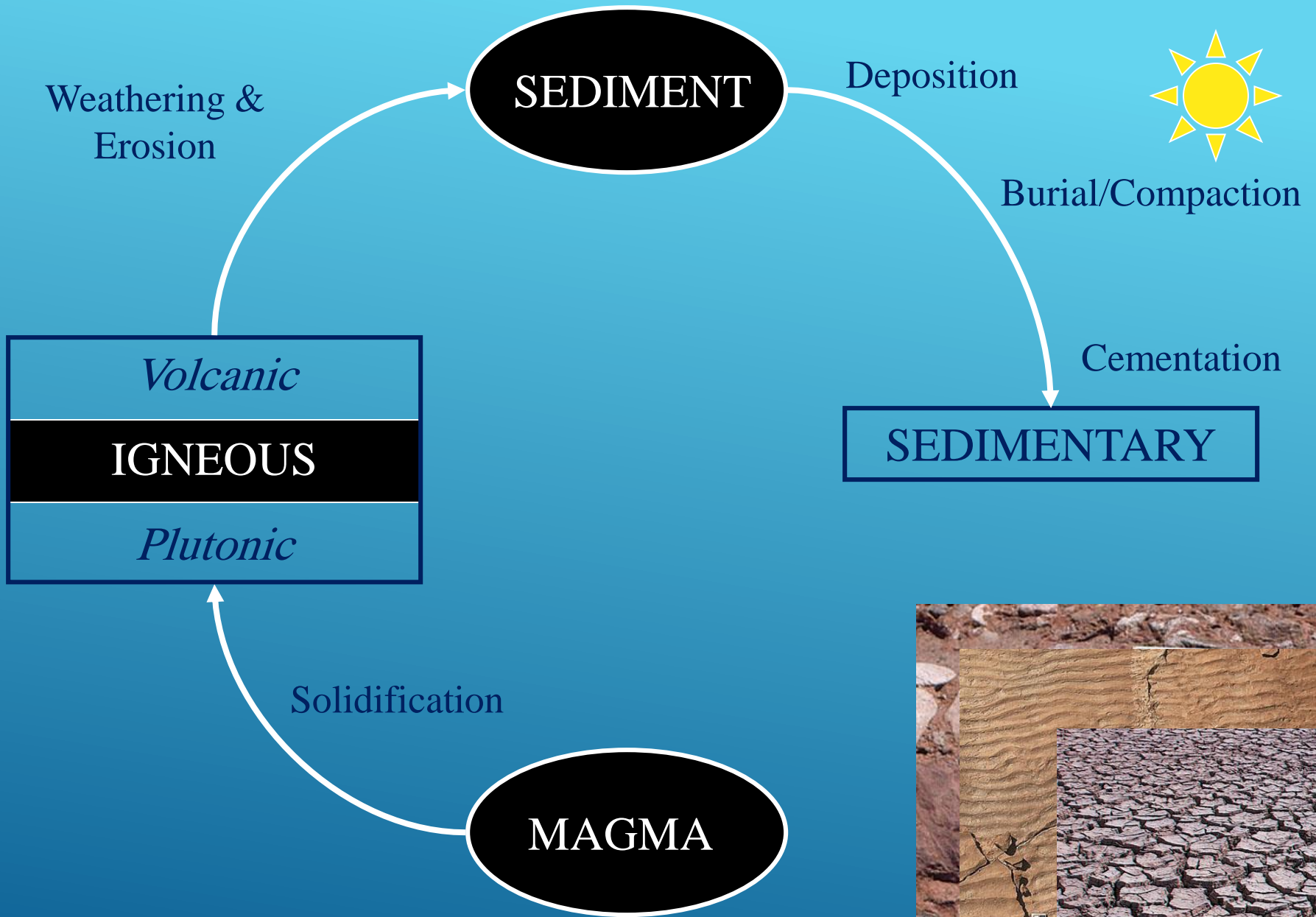


Solidification

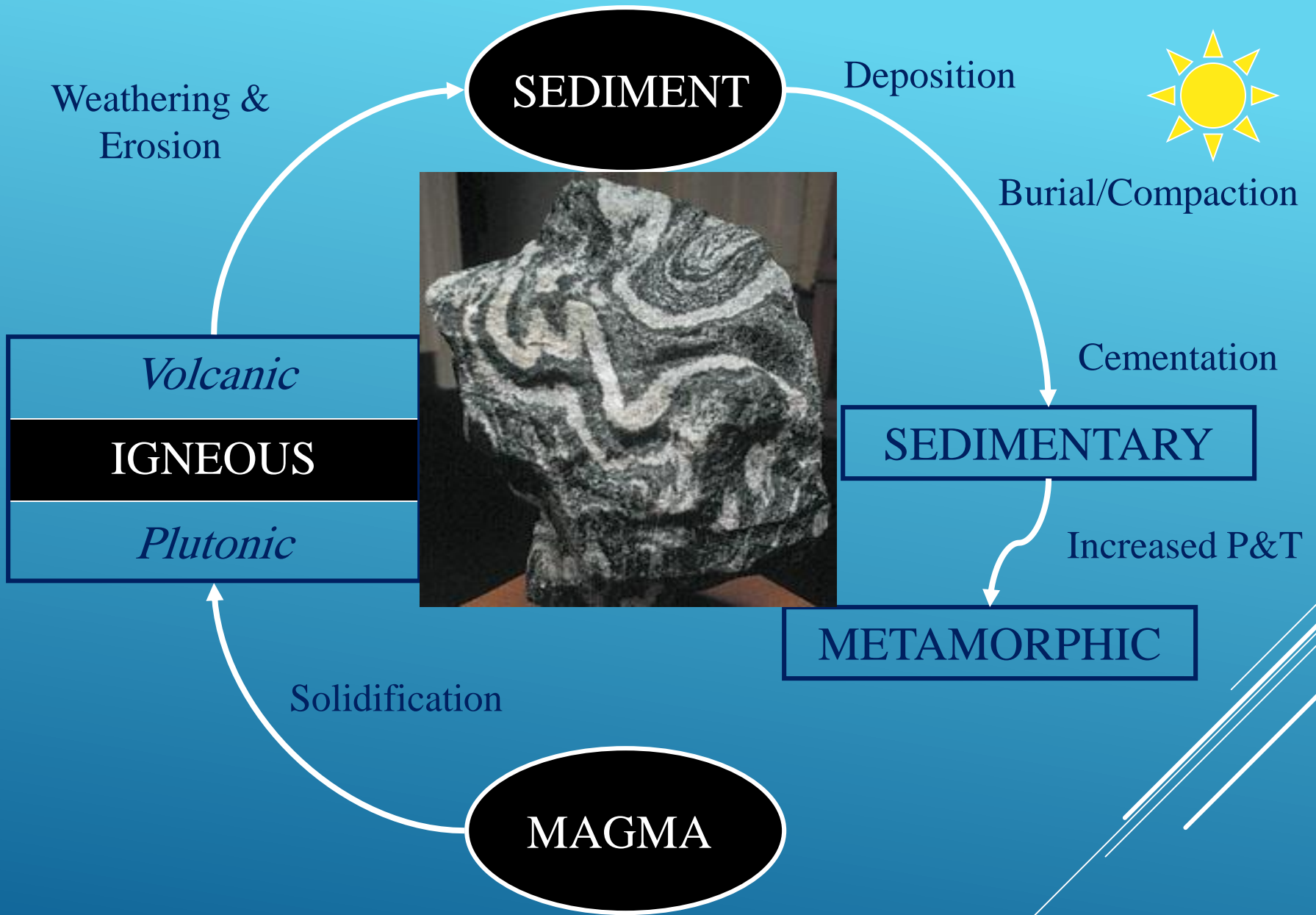
MAGMA

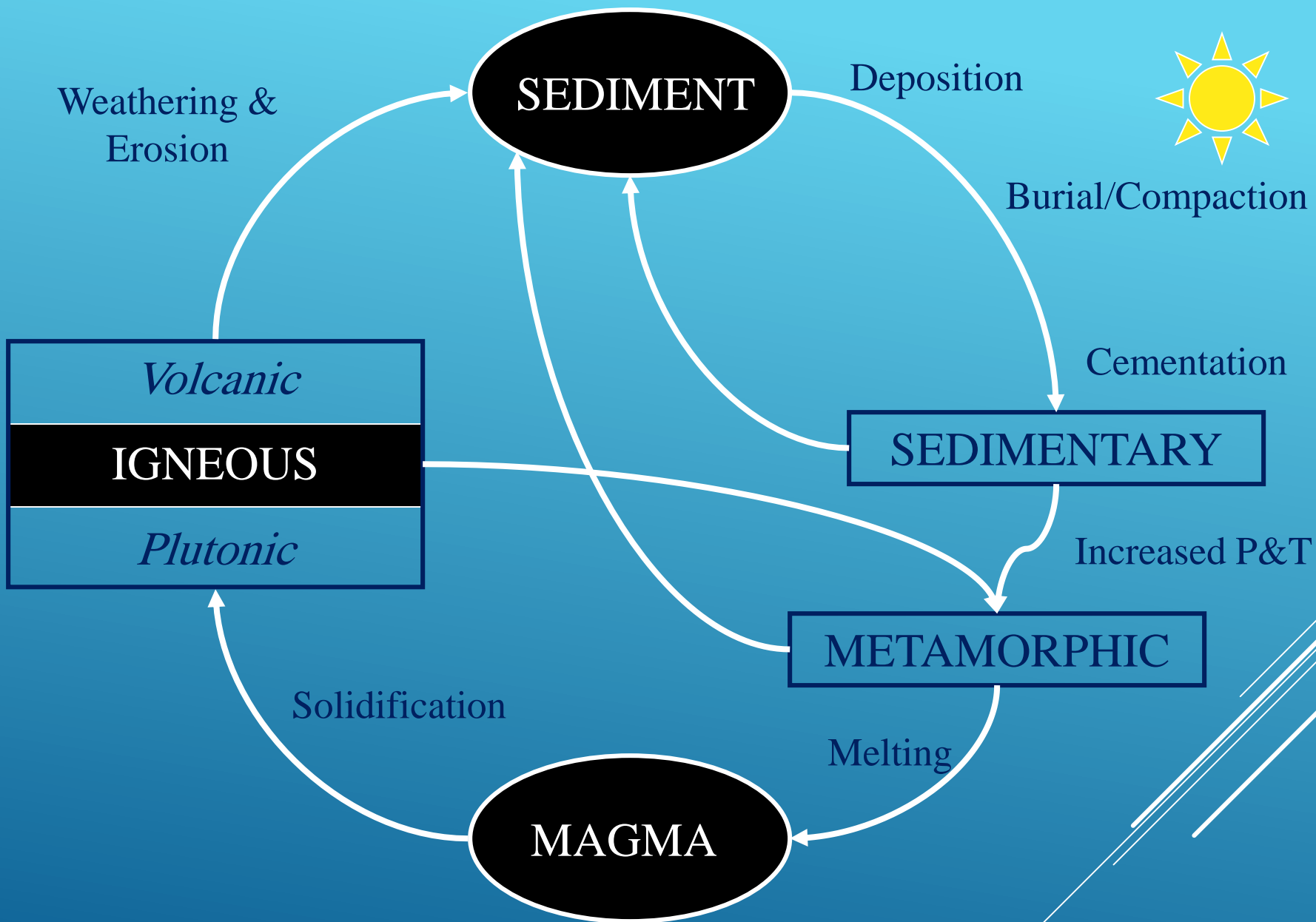






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THANKS

Please visit the following links:

https://en.wikipedia.org/wiki/Rock_cycle

<https://www.geologyglasgow.org.uk/local-rocks/the-rock-cycle/>

https://www.youtube.com/watch?v=Kx6QnXc-f_I

<https://www.youtube.com/watch?v=EGK1KkLjdQY>

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Dr. Eng. Hassan Mohamed