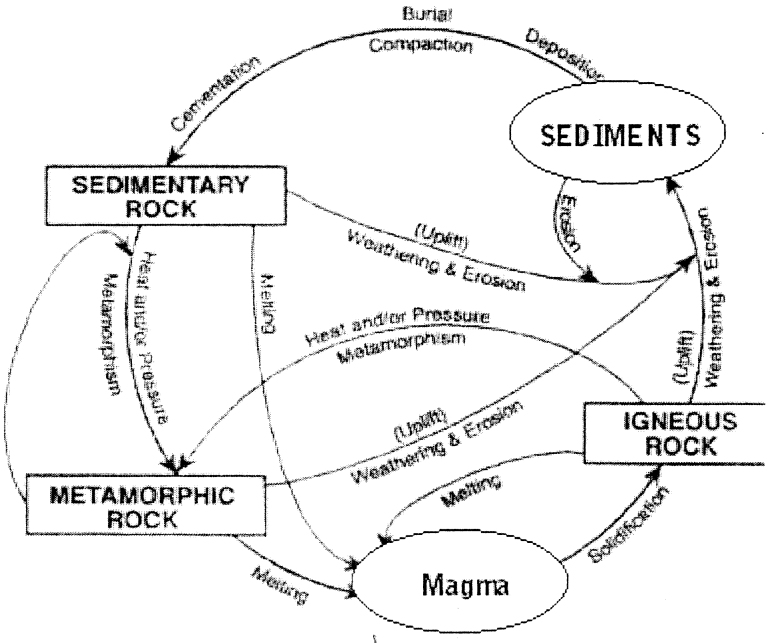
Name: KEY Period: _____

## Rock Cycle in Earth's Crust Use ESRT




1. As magma cools, it forms Igneous rock by the process of Solidification.
2. Igneous rocks can form Meta, Sed and Ig. rocks.
3. Sediments form Sedimentary rocks by the process of deposition, Burial, compaction & cementation.
4. Sediments form from the process of weathering & erosion.
5. Sedimentary rocks can form Ig., Met. and Sed. rocks.
6. Which process changes igneous rock into metamorphic rock? Heat & pressure
7. Which process changes sedimentary rock into igneous rock? ~~erosion, burial~~ melting!
8. Which process changes metamorphic rock into sedimentary rock? uplift - erosion - sediments buried, compaction, cementation

9. Metamorphism involves the addition of heat and pressure to pre-existing rocks.

10. Compaction & cementation of sediments forms Sedimentary rocks.

11. Subjecting sedimentary rocks to extreme heat & pressure forms metamorphic rocks.

12. Solidification of molten materials forms igneous rocks.

13. Deposition and burial of sediments forms Sedimentary rocks.

14. Deposited sediments may be particles of which types of rock? All!

15. Heat & Pressure acting on igneous rocks forms Metamorphic.

16. Solid magma forms Igneous.

17. In order to form magma, what must happen to sedimentary, metamorphic or igneous rocks?

MELTING!

18. For weathering & erosion to occur, what process will the rock usually go through first or at the same time?

Uplift

19. Can sedimentary rock form directly from metamorphic rock? Explain your answer.

DIRECTLY? NO

IT MUST BE UPLIFTED, eroded, deposited, buried then compacted and cemented.