

Name: _____ Date _____

Period: _____

Rock Cycle

Use the Rock Cycle diagram on page 6 of your ESRT to answer the questions below.

1. As magma cools, it forms _____ rock by the process of _____.
2. Igneous rocks can form _____, _____ and _____ rocks.
3. Sediments form _____ rock by the process of _____
_____.
4. Sediments form from the process of _____.
5. Sedimentary rocks can form _____, _____ and _____ rocks.
6. Which process changes igneous rock into metamorphic rock? _____
7. Which process changes sedimentary rock into igneous rock? _____
8. Which process changes metamorphic rock into sedimentary rock? _____
9. Metamorphism involves the addition of _____ and _____ to pre-existing rocks.
10. Compaction & cementation of sediments forms _____ rocks.
11. Recrystallization of **un-melted** material forms _____ rocks.
12. Solidification of molten materials forms _____ rocks.
13. Evaporation & precipitation of sediments forms _____ rock.
14. Deposited sediments may be particles of which types of rock?

15. Heat & Pressure acting on igneous rocks forms _____ rock.

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

17. On what part of earth does most weathering & erosion occur? _____.

18. What process must occur for most rocks to be exposed to weathering and erosion?

19. How can a sedimentary rock form directly from a metamorphic rock? Explain your answer.

20. Describe ALL the events that must occur for *sandstone* to form from *granite*. _____

How would this sandstone become a *quartzite*?

21. Describe ALL the events/processes that must occur for *shale* to form, and then change to *schist*.
