

CHAPTER 3 REVIEW

Student Name: _____ Date: _____ Period: _____

1. What are the two main ways that geologists study Earth's interior?
 - a. Through evidence from rocks and radio waves.
 - b. Through evidence from animals and rocks.
 - c. Through evidence from rocks and seismic waves.
 - d. Through evidence from ocean waves and plants.
2. What are the two elements that are found the most on the Earth's crust?
 - a. Carbon (C) and Oxygen (O)
 - b. Silicon (Si) and Helium (H)
 - c. Oxygen (O) and Nitrogen (N)
 - d. Oxygen (O) and Silicon (Si)
3. Which best describes the mantle?
 - a. Molten metal
 - b. Dense, solid metal ball
 - c. Hot but solid rock
 - d. Dry land and ocean floor
4. How do pressure and temperature change inside Earth as depth increases?
 - a) Pressure and temperature decrease
 - b) Pressure increases, temperature decreases
 - c) Pressure decreases, temperature increases
 - d) Pressure and temperature increase
5. What is the correct order (from the surface) of Earth's layers?
 - a) Crust, outer core, inner core, mantle
 - b) Mantle, outer core, inner core, crust
 - c) Crust, mantle, outer core, inner core
 - d) Outer core, inner core, crust, mantle
6. Holes drilled several kilometers into Earth's crust provide direct evidence about Earth's interior in the form of
 - a) Seismic waves
 - b) Rock samples
 - c) Liquid iron
 - d) Volcanic eruption
7. Heat from which of these causes convection currents inside Earth?
 - a) Crust
 - b) Crust and mantle
 - c) Crust and core
 - d) Mantle and core

8. About how many rock-forming minerals make up most of the rocks of Earth's crust?
 - a) 2
 - b) 20
 - c) 200
 - d) 2000
9. Heat and pressure deep beneath Earth's surface can change any rock into
 - a) Chemical rock
 - b) Gemstones
 - c) Metamorphic rock
 - d) Sedimentary rock
10. Which of these is NOT a group into which Geologists classify rocks?
 - a) Igneous
 - b) Metamorphic
 - c) Sedimentary
 - d) Crystal
11. Extrusive igneous rocks are
 - a. formed outside the crust and are slow cooling.
 - b. formed inside the crust and are slow cooling.
 - c. formed outside the crust and are rapid cooling.
 - d. formed inside the crust and are rapid cooling.
12. Which of the following describe the correct order of sedimentary rock formation?
 - a. Weathering and compaction, erosion, deposition, cementation
 - b. Cementation, Weathering and erosion, Compaction, deposition
 - c. Weathering and erosion, deposition, compaction, cementation
 - d. Weathering and Erosion, deposition, cementation, compaction

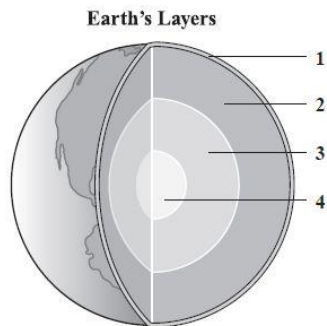
Matching Questions

13. ____ Deposition
 - a) The process that presses sediment together because of the weight of sediment layers above.
14. ____ Weathering
 - b) The process that breaks rocks apart into smaller pieces by plant roots, acid, and freezing & thawing.
15. ____ Cementation
 - c) The process where sediment settles to the bottom of a body of water such as a lake, ocean, or river.
16. ____ Compaction
 - d) The process where dissolved minerals crystalize and glue particles of sediment together.
17. A series of processes on Earth's surface and in the crust and mantle that slowly changes rocks from one kind to another is called
 - a) Erosion
 - b) Crystallization
 - c) The rock cycle
 - d) Evaporation

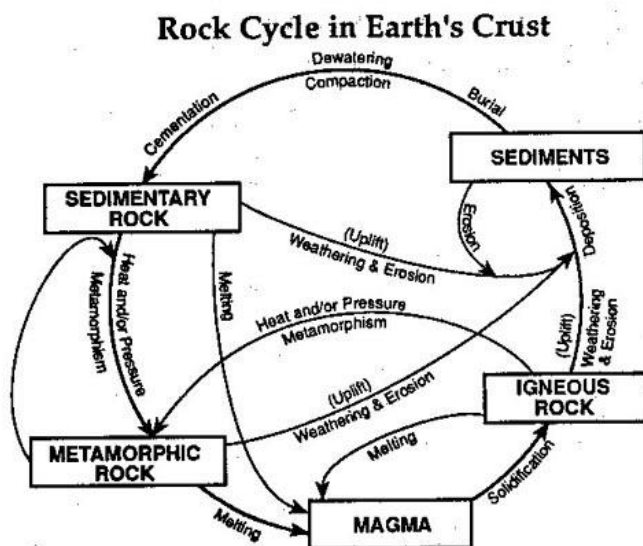
18. In the rock cycle, what forces can change sedimentary rocks to igneous rocks?
- Compaction and cementation
 - Pressure alone
 - Deposition
 - Melting and volcanic activity

MATCHING (Match the letter with the statement that best fits).

19. _____ Process by which sediments get pressed together.
20. _____ A series of processes that occur on Earth's surface and in the crust and mantle that slowly change rocks from one kind to another.
21. _____ Igneous rock that formed when magma hardened beneath Earth's surface.
22. _____ Igneous rock that forms from lava that erupted onto Earth's surface.
- A. Rock cycle B. Extrusive rock C. Compaction D. Intrusive Rock
23. Label the layers of the Earth.



24. Observe the Rock Cycle diagram and answer the following questions.



- Which **processes** changes igneous rock into metamorphic rock?
- Which **processes** changes sedimentary rock into igneous rock?
- Which **processes** changes metamorphic rock into sedimentary rock?