

Name: _____

Date: _____ Period: _____

Minerals & Rocks

The Physical Setting: Earth Science

Worksheet: Metamorphic Rocks

1. Where is metamorphic rock frequently found?
 - a. along the interface between igneous intrusions and sedimentary bedrock
 - b. within large lava flows
 - c. on mountaintops that have horizontal layers containing marine fossils
 - d. as a thin surface layer covering huge areas of the Continents

2. What is the main difference between metamorphic rocks and most other rocks?
 - a. Many metamorphic rocks contain a high amount of oxygen- silicon tetrahedra
 - b. Many metamorphic rocks contain only one mineral
 - c. Many metamorphic rocks have an organic composition
 - d. Many metamorphic rocks exhibit banding and distortion of structure

3. The metamorphism of a sandstone rock will cause the rock
 - a. to occupy a greater volume
 - b. to be melted
 - c. to become more dense
 - d. to contain more fossils

4. Metamorphic rocks result from the
 - a. erosion of rocks
 - b. compression and cementation of soil particles
 - c. cooling and solidification of molten magma
 - d. recrystallization of rocks

5. The recrystallization of unmelted material under high temperature & pressure results in
 - a. volcanic rock
 - b. rock
 - c. metamorphic rock
 - d. sedimentary rocks

6. Which mineral is commonly found in the three metamorphic rocks slate, schist, and gneiss?
 - a. pyroxene
 - b. feldspar
 - c. quartz
 - d. mica

7. Slate is formed by the
 - a. deposition of chlorite and mica
 - b. foliation of schist
 - c. metamorphism of shale
 - d. folding and faulting of gneiss

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8. Which rock is foliated, shows mineral alignment, but not banding, and contains medium-sized grains of quartz and pyroxene?
 - a. phyllite
 - b. schist
 - c. gneiss
 - d. quartzite

9. During the intrusion of the Palisades Sill, contact metamorphism changed limestone into
 - a. diorite
 - b. marble
 - c. sandstone
 - d. hornfels

10. Which nonfoliated rock forms only in a zone of contact metamorphism?
 - a. conglomerate
 - b. hornfels
 - c. pegmatite
 - d. quartzite