

Name _____

The Marvelous Transformation: How Metamorphic Rocks Are Created

Multiple Choice Questions

1. What are the key ingredients for creating metamorphic rocks?
 - a) Heat and pressure
 - b) Sediments and minerals
 - c) Volcanic eruptions
 - d) Erosion and weathering

2. What process occurs when minerals within parent rocks rearrange themselves under extreme conditions?
 - a) Weathering
 - b) Erosion
 - c) Recrystallization
 - d) Deposition

3. Which type of metamorphism occurs when rocks are heated by nearby molten magma?
 - a) Contact metamorphism
 - b) Regional metamorphism
 - c) Igneous metamorphism
 - d) Sedimentary metamorphism

4. What is the role of tectonic forces in the formation of metamorphic rocks?
 - a) They cool rocks deep within the Earth.
 - b) They create sedimentary rocks.
 - c) They push rocks deeper into the Earth's crust, increasing heat and pressure.
 - d) They prevent metamorphism.

5. How do geologists determine the metamorphic grade of rocks?
 - a) By analyzing the rock's color
 - b) By counting the number of minerals in the rock
 - c) By using index minerals that form under specific temperature and pressure conditions
 - d) By measuring the rock's weight

