

Name \_\_\_\_\_

## Mineral Magic: The Essential Role of Minerals in the Rock Cycle

### Multiple Choice Questions

1. What are minerals, and what distinguishes them from other substances?
  - a) Minerals are organic solids with a specific color.
  - b) Minerals are naturally occurring, inorganic solids with a specific chemical composition.
  - c) Minerals are man-made materials with unique properties.
  - d) Minerals are small particles found in soil.
  
2. What is the role of minerals in the formation of igneous rocks?
  - a) They shape sedimentary layers.
  - b) They crystallize from molten magma or lava to create igneous rocks.
  - c) They recrystallize during metamorphism.
  - d) They cement sedimentary rocks together.
  
3. How do minerals contribute to the creation of sedimentary rocks?
  - a) They undergo recrystallization under high pressure.
  - b) They cool and solidify from magma.
  - c) They accumulate and cement together to form sediments.
  - d) They transform existing rocks.
  
4. Which type of rock is formed from the transformation of existing rocks under high pressure and temperature, involving the recrystallization of minerals?
  - a) Sedimentary rock
  - b) Igneous rock
  - c) Metamorphic rock
  - d) Sediment rock
  
5. How do minerals contribute to the diversity of rocks in the rock cycle?
  - a) They create igneous rocks through cementation.
  - b) They form sedimentary rocks by recrystallizing.
  - c) Their composition affects the properties and appearance of rocks.
  - d) They cause rocks to change from sedimentary to igneous.

