

Name _____

Melting Magic: The Rock Cycle's Fiery Transformation

Short Answer Key

1. Magma is formed when minerals inside rocks melt due to high temperatures. It plays a crucial role in the formation of igneous rocks when it solidifies and cools.
2. The cooling rate of magma affects the size of crystals in igneous rocks. If magma cools quickly, small crystals form, while slow cooling results in large crystals.
3. Yes, igneous rocks can transform into other types of rocks. They can undergo metamorphism and become metamorphic rocks or break down into sediments and contribute to the formation of sedimentary rocks.
4. The process of melting contributes to the Earth's surface by creating new rocks and providing the raw materials for different types of rocks. It also plays a vital role in shaping the planet's geological features.
5. An example of an igneous rock is granite. It has a coarse-grained texture with large crystals.

