

Name \_\_\_\_\_

## Minerals vs. Rocks: Unveiling the Differences

### Short Answer Key

1. Cleavage is the way minerals break along specific planes, while fracture is the way they break irregularly. They are related to the internal structure of minerals.
2. Examples: Rock made of a single type of mineral - Marble (composed of calcite); Rock with a mixture of different minerals - Granite (contains quartz, feldspar, and mica).
3. The texture of a rock is determined by the arrangement of mineral grains. Coarse-grained rocks have large, visible mineral grains, while fine-grained rocks have small, barely visible grains.
4. The primary difference in origin is that igneous rocks form from the cooling and solidification of molten rock, metamorphic rocks form from the compression and recrystallization of existing rocks, and sedimentary rocks form from the accumulation of sediments over time.
5. Yes, rocks can change over time through processes like weathering, erosion, and metamorphism. For example, limestone can change into marble through metamorphism.

