

BIOTITE

Meaning: Biotite is a dark, flaky mica mineral that is commonly found in igneous and metamorphic rocks.

1. Biotite is commonly found in granite and other igneous rocks.
2. The dark, flaky mineral biotite is a significant component of many metamorphic rocks.
3. Geologists often use biotite to determine the thermal history of a rock formation.
4. In petrology, biotite is essential for understanding the crystallization process of magma.
5. The presence of biotite can indicate specific conditions during rock formation.
6. Biotite's distinctive black or brown color makes it easy to identify in hand samples.
7. During the rock cycle, biotite can be altered into other minerals through weathering.
8. Crystals of biotite can grow quite large, making them visually striking in mineral collections.
9. The cleavage of biotite allows it to break into thin sheets, a feature that is often studied.
10. Its high iron and magnesium content gives biotite its characteristic dark appearance.

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