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Chapter 5 Vocab

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| **Across****3.** relating to or denoting a rock texture, typically found in volcanic rocks, containing distinct crystals or crystalline particles embedded in a fine-grained groundmass.**4.** relating to or denoting igneous rocks composed chiefly of mafic minerals.**6.** a coarsely crystalline granite or other igneous rock with crystals several centimeters to several meters in length.**7.**  occurs when only a portion of a solid is melted. **9.** relating to or denoting a group of light-colored minerals including feldspar, feldspathoids, quartz, and muscovite.**10.** a rare, blue-tinged, coarse-grained intrusive igneous rock sometimes containing diamonds, found especially in South Africa and Siberia.**12.** form when magma reaches the Earth's surface a volcano and cools quickly. | **Down****1.**  the removal and segregation from a melt of mineral precipitates; except in special cases, removal of the crystals changes the composition of the magma.**2.** the work of the petrologist, Norman L. Bowen who summarized, based on experiments and observations of natural rocks, the crystallization sequence of typical basaltic magma undergoing fractional crystallization.**5.** relating to, denoting, or containing a group of dark-colored, mainly ferromagnesian minerals such as pyroxene and olivine.**8.** hot molten or semifluid rock erupted from a volcano or fissure, or solid rock resulting from cooling of this.**11.**  form when magma cools slowly below the Earth's surface. |