VOLCANIC MATERIALS



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Andesite is the name used for a family of fine-grained, extrusive igneous racks that are usually light to dark gray in color. They often, weather to various shades of brown, and these specimens must be broken for proper examination. Andesite is rich in plagioclase feldspar minerals and may contain biotite, pyroxene, or amphibole. Andesite usually does not Basalt is a darkcolored, finegrained, igneous rockcomposed mainly of plagioclase and pyroxene minerals. It most commonly forms

such as a lava flow, but can also form in small intrusive bodies, such as an

igneous dike or a thin sill. It has a composition similar to gabbro. The

difference between basalt and gabbro is that basalt is a finegrained rock while gabbro is a coarsegrained rock.





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the volcaniceguivalent of granodiorite.



Diorite is the name used for a group of coarse-grained igneous rocks with a composition between that of granite and basalt. It usually occurs as large infrusions, dikes, and sills within continental crust. These often form above a

convergent plate boundary where an oceanic plate subducts beneath a continental plate.





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Granadiorite, mediumcoarse-grainedrock the is almong the most soundant intrusive igneous rocks. It contains quartzand is distinguished from granite by its having more plagioclase feldspo than arthoclase feldspo

constituents include horn blende, biottte, and augite. The plagioclase (andesine) usually forms twinned crystals, cometimes wholly encased by orthoclase. The mode of formation and occurrence, physical ppearance, and mineralic composition and texture of grahodiorite are much like those of granite

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PEGMATITE







Peridotite is a generic name used for coarsegrained, dark-colored, ultramafic igneous rocks. Peridotites usually contain olivine as their primary mineral, frequently with other mafic minerals such as pyroxenes and amphiboles.

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