

**Basalt**  
 Black in appearance. Mafic fine-grained rock composed of mainly plagioclase and pyroxene. Volcanic/hypabyssal when found as intrusive dikes and sills.



**Tachylite**  
 A glassy igneous rock low in silica. Black with a high resinous lustre. Formed either as hypabyssal or extrusive.



**Dolerite**  
 A medium grained equivalent of basalt. Found as intrusive dikes. Black in appearance.



**Gabbro**  
 A mafic rock with dark grey appearance. Coarse crystals of calcium Plagioclase gives it a grey speckled appearance.



**Peridotite**  
 Coarse grained plutonic ultramafic rock with olivine phenocrysts that give it a green appearance. Augite produces black specks.



**Andesite**  
 Fine grained intermediate rock. Found as hypabyssal intrusion. Contains phenocrysts of 75% calcium/ 25% sodium plagioclase. Lighter in colour due to increase in silica.



**Microdiorite**  
 Medium grained intrusive rock dominated by plagioclase. Dark grey/greenish colour.



**Diorite**  
 Coarse grained intrusive rock dominated by plagioclase and biotite. White/grey with black mafic crystals.



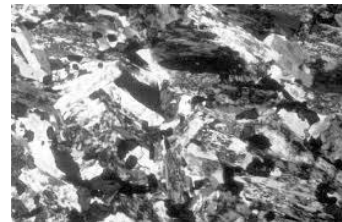
**Obsidian**  
 Dark, hard glassy volcanic rock. Thin sections are clear but looks opaque. Intermediate and acidic rock. Cooled very quickly.



**Trachyte**  
 Fine grained light white coloured hypabyssal or extrusive rock. Has an aphanitic and porphyritic texture. Phenocrysts of orthoclase. Grey with white crystals



**Microsyenite**  
 Medium grained intrusive rock consisting of orthoclase and plagioclase minerals.



**Syenite**  
 Coarse grained plutonic rock composed mainly of feldspar and ferromagnesian crystals like hornblende. Low in quartz. Varies typically light colour with black crystals.



### Dacite

A light coloured fine grained extrusive or hypabyssal rock. Dominated by phenocrysts or orthoclase and plagioclase.



### Microgranodiorite

Medium grained intermediate rock with increasing quartz. Formed of mainly plagioclase than orthoclase. Light appearance.



### Granodiorite

Coarse grained intermediate rock with increasing quartz. Formed of mainly plagioclase than orthoclase. Light appearance with black specs of ferromagnesian (biotite).



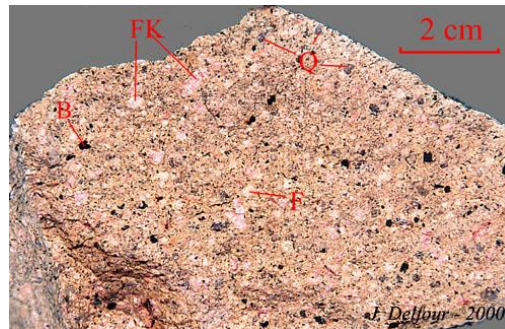
### Rhyolite

Fine grained texture (glassy to aphanitic to porphyritic) pink or white in colour. High amounts of orthoclase and plagioclase feldspar and 30% quartz.



### Microgranite

Granite recognizable as crystalline under microscope. Medium grained. Orthoclase can give pink appearance. Mica specs of black. Contains granular quartz poorly developed.



### Granite

Coarse grained crystalline acidic rock. Dominated by orthoclase and plagioclase with quartz crystals and specs of black mica. A plutonic rock.

