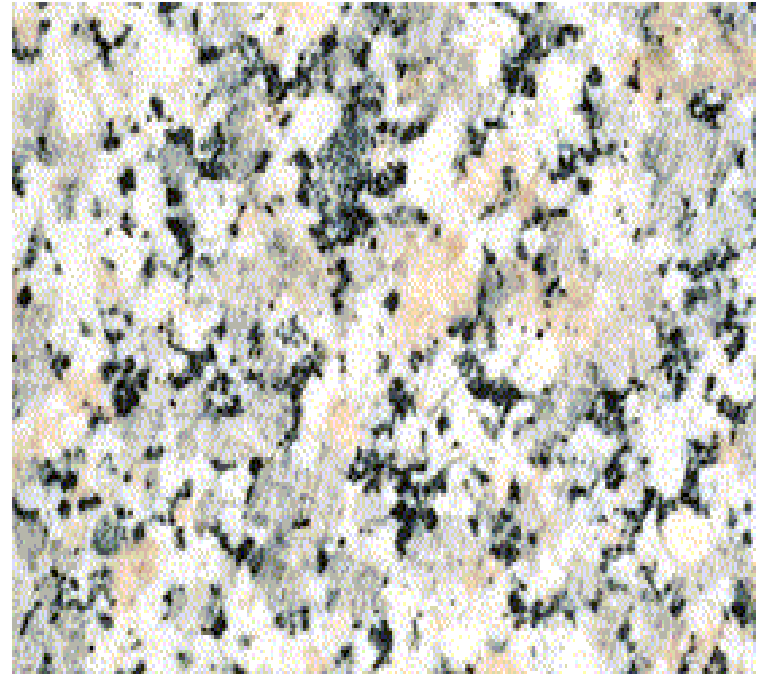


Rock Forming

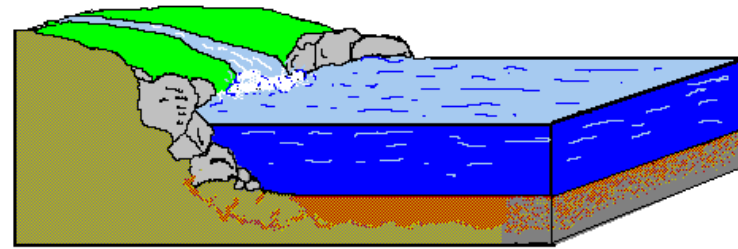


Minerals

There are 3 types of rocks



igneous



sedimentary



metamorphic

Quartz SiO_2

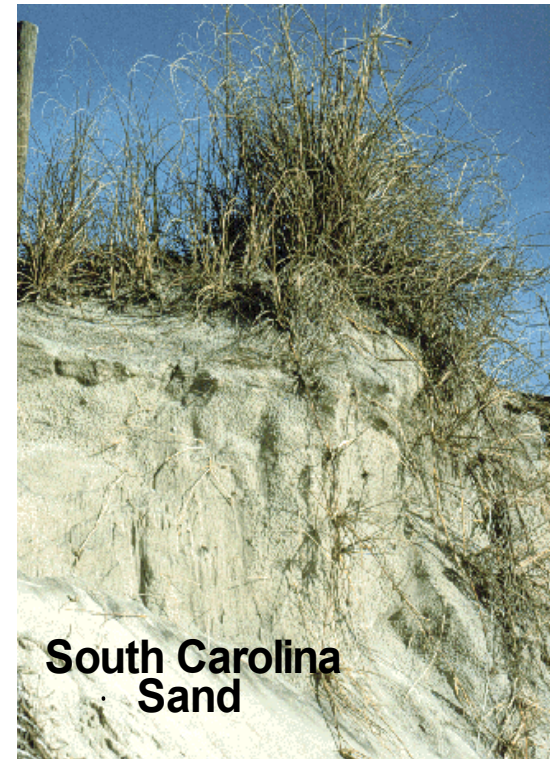
hardness (7)

conchoidal fracture

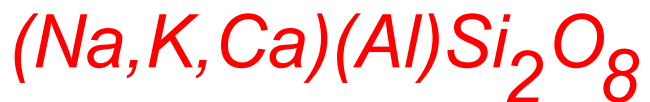
clear to white

*used as a gemstone, mortar,
scientific apparatus,
electronic industry*

*important: metamorphic, igneous
sedimentary*



Feldspar Group



cleavage

hardness (<7)

white to pink

ceramics, ornamental

important: igneous,
metamorphic,
sedimentary (clastic)

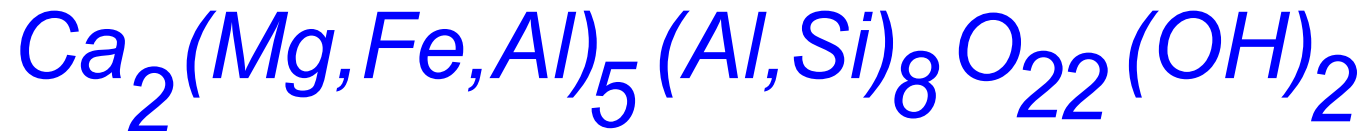
microcline



albite



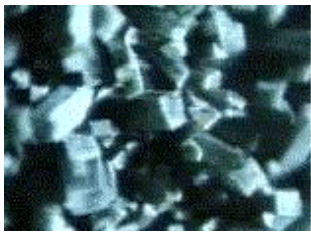
Amphibole Group



Tremolite



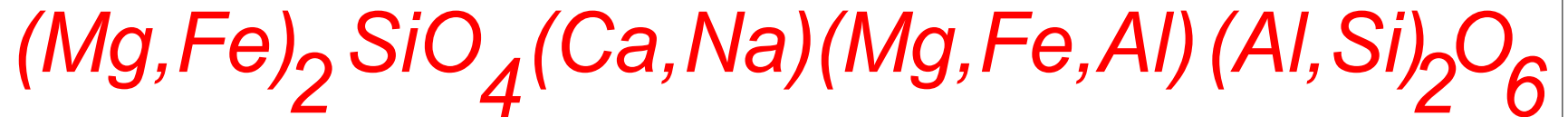
*cleavage (56° and 124°)
green to black
some forms are used as
asbestos*



Actinolite

*important: igneous, metamorphic
(hornblende most common)*

Pyroxene Group



cleavage (87° and 93°)

short prisms

dark

used as specimens, some gemstones



hedenbergite

*important: igneous, metamorphic
(augite most common)*

Mica Group



perfect cleavage

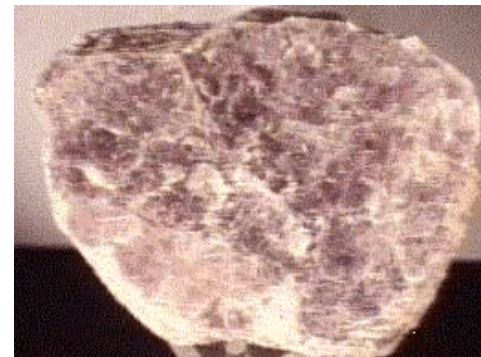
thin sheets flexible

clear to black

*used in electrical, fireproofing,
lubricant, wall paper*



muscovite



lepidolite

important: metamorphic, igneous

accessory: sedimentary

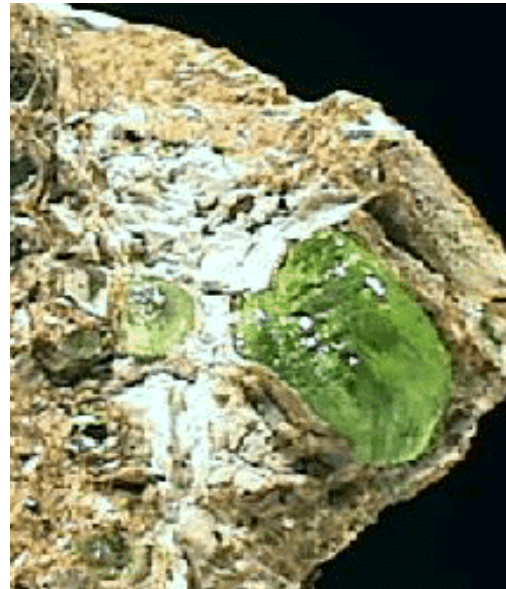
Olivine $(Mg,Fe)_2SiO_4$

green

conchoidal fracture

vitreous look

*some used as a gem,
abrasives.*



important: igneous

Calcite CaCO_3



rhombohedral crystals
effervesces with acid
used in manufacture of cement,
fertilizer

Dolomite CaMgCO_3



important: sedimentary
metamorphic

Web Sites of Interest

[*http://mineral.galleries.com*](http://mineral.galleries.com)

minerals by chemical group, name

[*http://minerals.er.usgs.gov/minerals*](http://minerals.er.usgs.gov/minerals)

U.S. Geological Survey, minerals in U.S.

[*http://www.kgs.ukans.edu/AASG*](http://www.kgs.ukans.edu/AASG)

Link to all state geological surveys