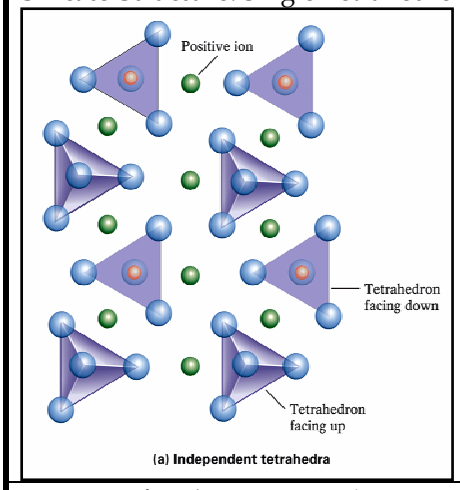
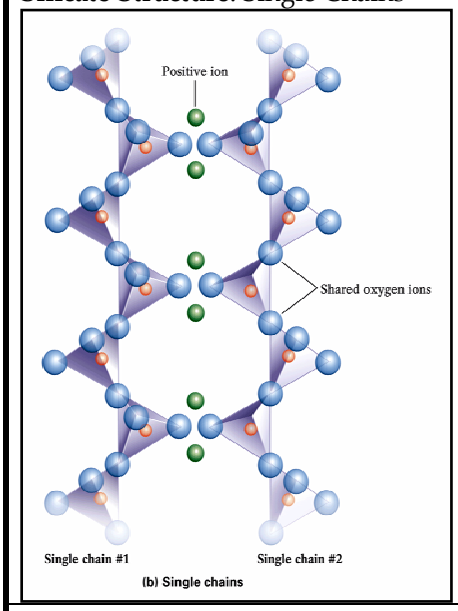
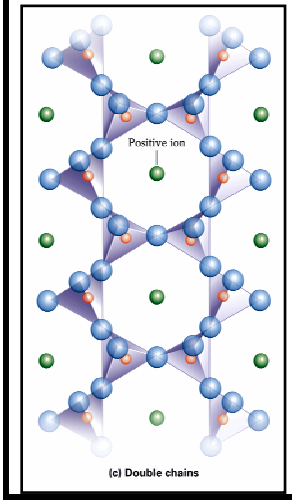
Olivine $(Mg,Fe)_2SiO_4$
Cleavage: None
Silicate Structure: Single Tetrahedron



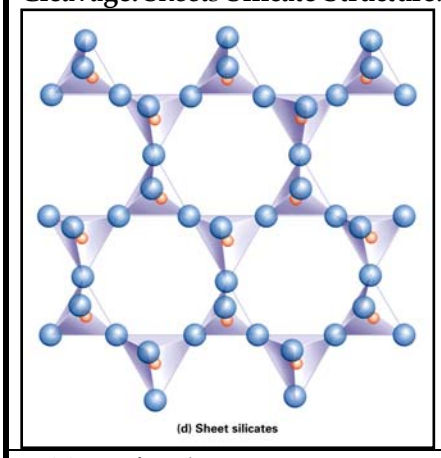
Pyroxene family: Augite $Ca(Mg,Fe,Al)(Al,Si)O_6$
Cleavage: Two planes at right angles
Silicate Structure: Single Chains



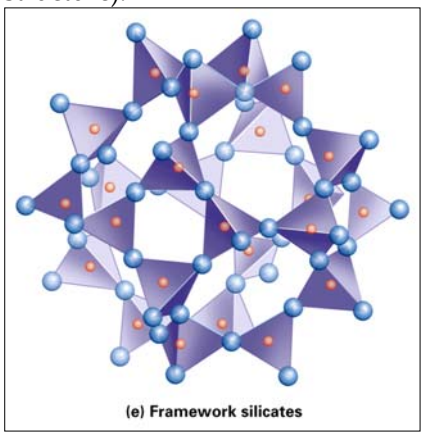
Amphibole family: **Hornblende**
$(Ca,Na)_{2\text{-}3}(Fe,Mg,Al)_5Si_6(Si,Al)_2O_{22}(OH)_2$
Cleavage: Two planes at 60° and 120°
Silicate Structure: Double Chains



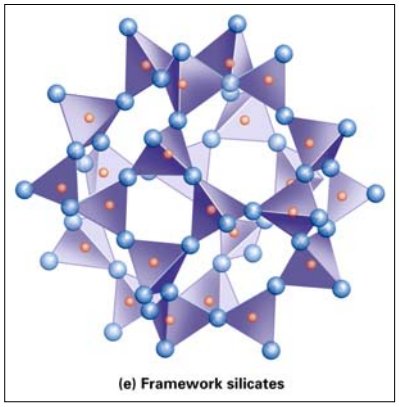
Mica family:
Biotite $K(Mg,Fe)_3AlSi_3O_{10}(OH)_2$
Muscovite $KAl_3Si_3O_{10}(OH)_2$
Cleavage: Sheets **Silicate Structure**: Sheets



Feldspar family:
$CaAl_2Si_2O_8$ AND $NaAlSi_3O_8$ AND $KAlSi_3O_8$
Cleavage: Two planes at right angles
Silicate Structure: Three Dimensional Network with Aluminum tetrahedron substituting for Silicon tetrahedron in 25-50% of the sites (leaves excess charges that require ionic bonding with other cations within the structure).



Quartz SiO_2
Cleavage: None
Silicate Structure: Three Dimensional Network



Graphics from Chernicoff/ Whitney, Geology