

Different types of Silicates

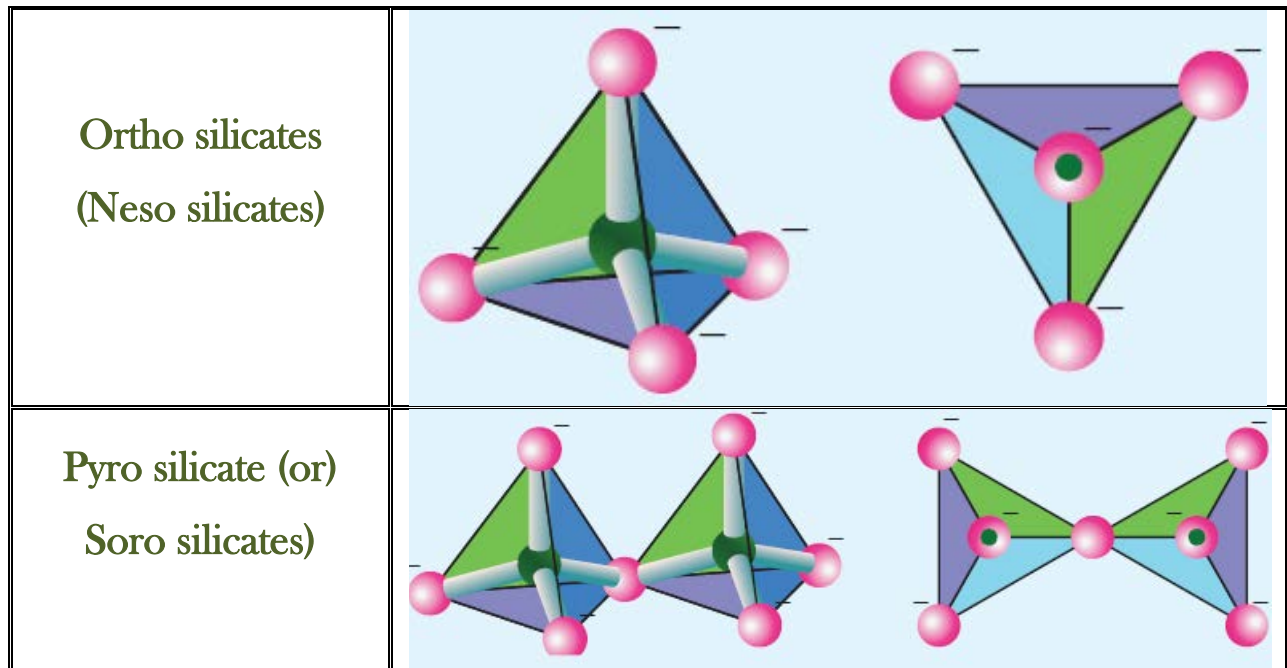
Silicates

The mineral which contains silicon and oxygen in tetrahedral $[\text{SiO}_4]^{4-}$ units linked together in different patterns are called silicates. Nearly 95 % of the earth crust is composed of silicate minerals and silica. The glass and ceramic industries are based on the chemistry silicates.

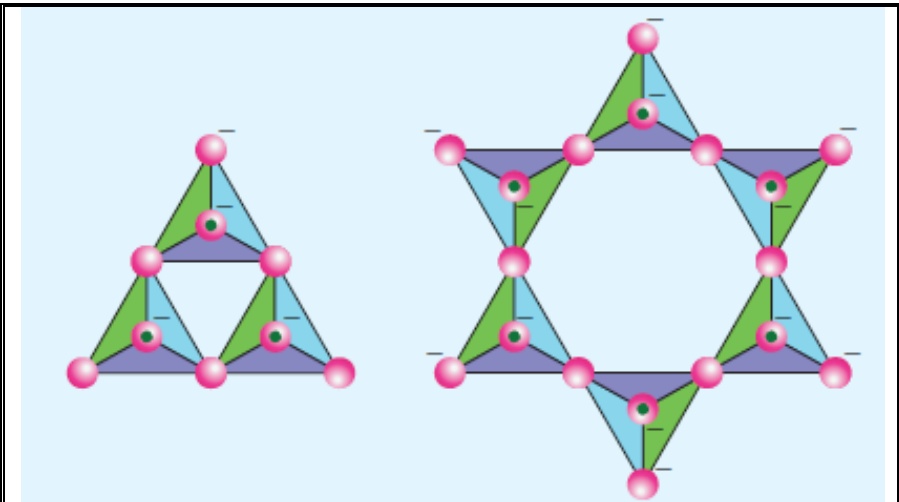
Types of Silicates:

Silicates are classified into various types based on the way in which the tetrahedral units, $[\text{SiO}_4]^{4-}$ are linked together.

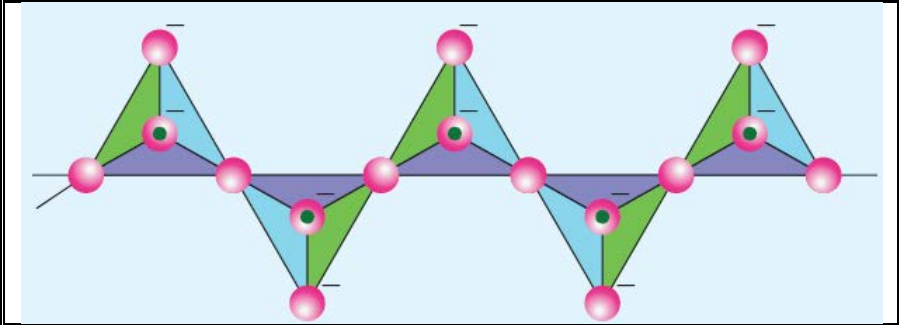
Structure of Silicates:



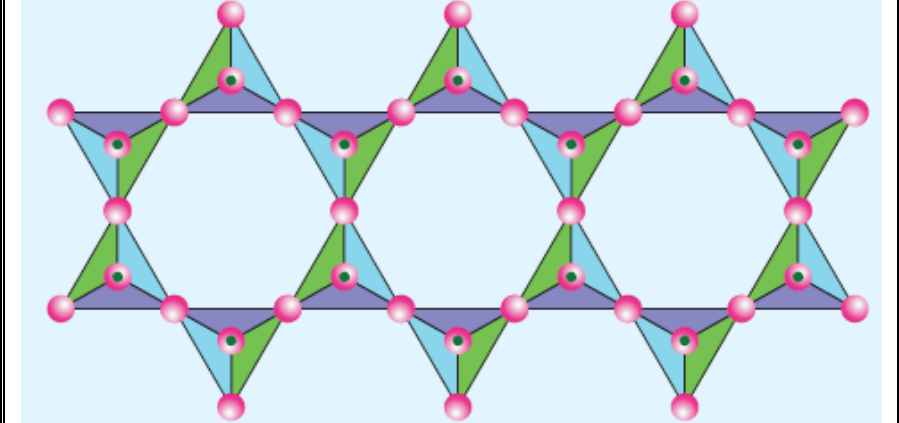
Cyclic silicates (or
Ring silicates)



Chain silicates (or
pyroxenes)



Double chain
silicates (or
amphiboles)



Sheet or phyllo
silicates

