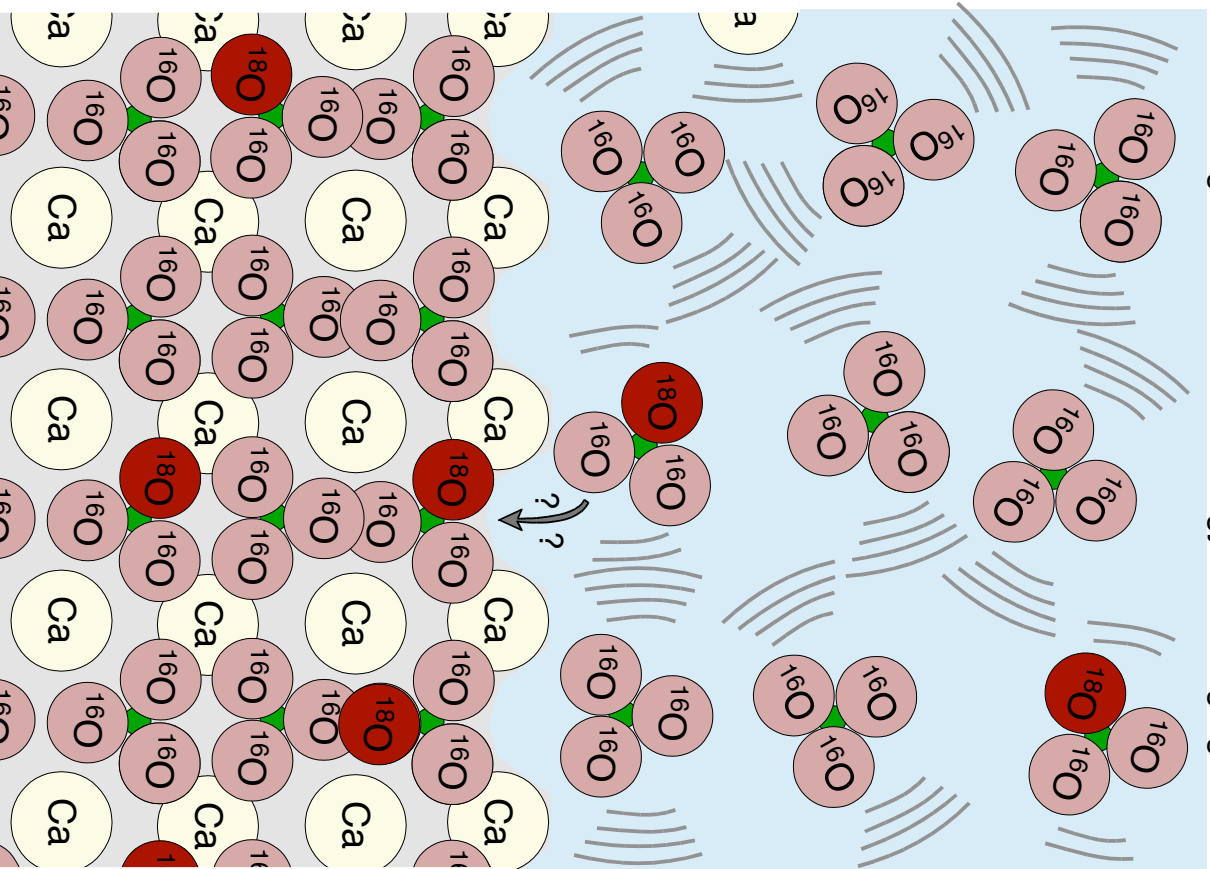


Fractionation of oxygen isotopes in formation of minerals from solution

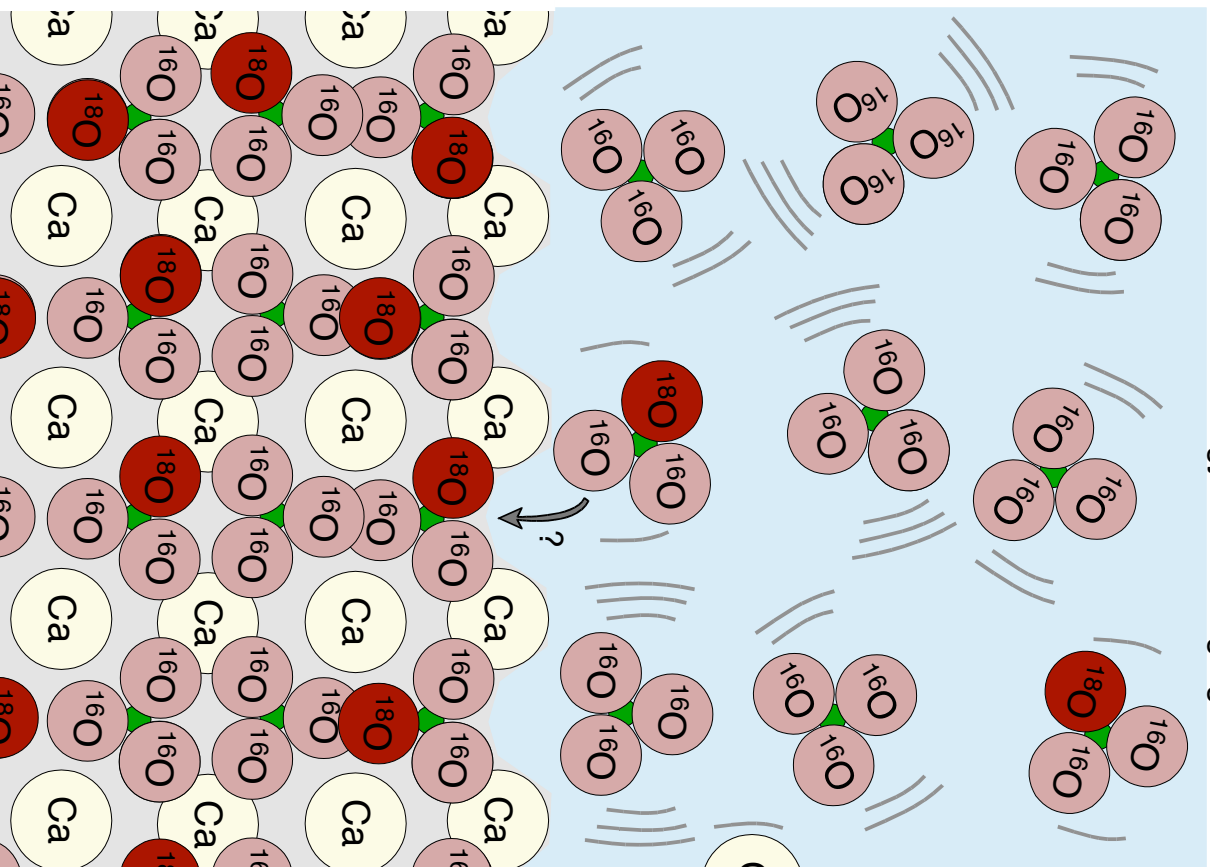
Warmer – greater vibrational energy – less segregation



CaCO₃ mineral (calcite or aragonite)

Water (aqueous solution)

Cooler – less vibrational energy – more segregation



The proportion of ¹⁸O is greatly exaggerated here. Smaller $\delta^{18}\text{O}_{\text{CaCO}_3}$

Greater $\delta^{18}\text{O}_{\text{CaCO}_3}$