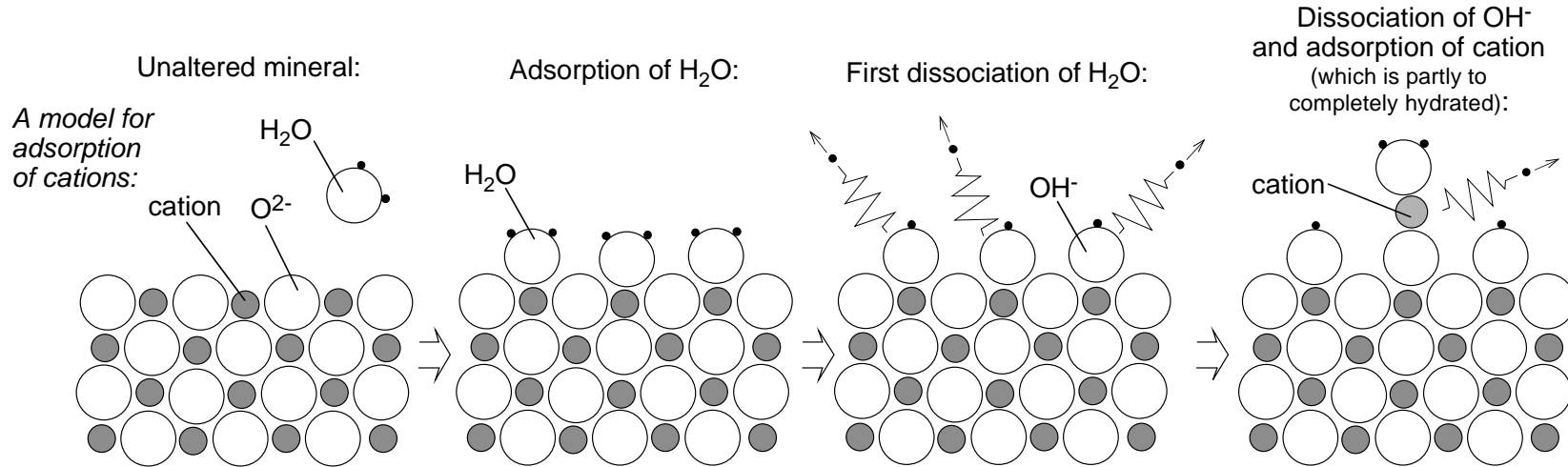


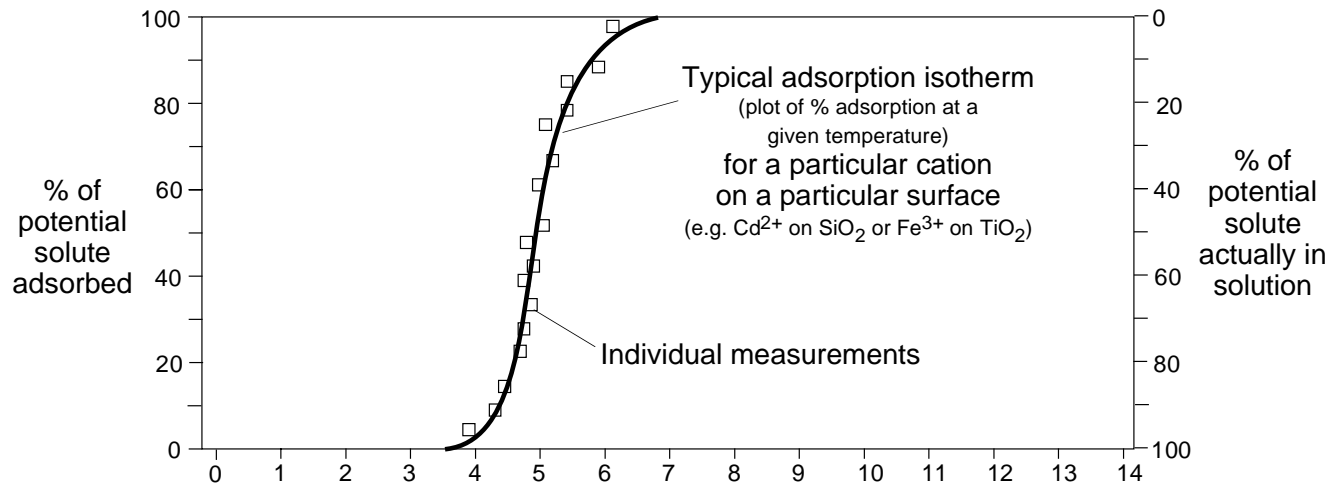
Adsorption of cations, and adsorption isotherms



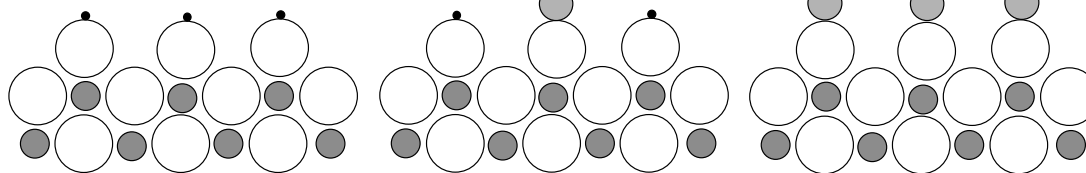
Adapted from Figure 4.2 of Schindler and Stumm, in Stumm (1987) *Aquatic Surface Chemistry*.

The extent of this dissociation will depend on pH (see below) and the cations in the mineral (see "An explanation of 'point of zero charge'").

Adsorption isotherms summarize data about adsorption across a range of pH:



Low pH:
H⁺ ions occupy surface; cations have no place to adsorb



High pH:
H⁺ ions leave surface, and cations occupy surface