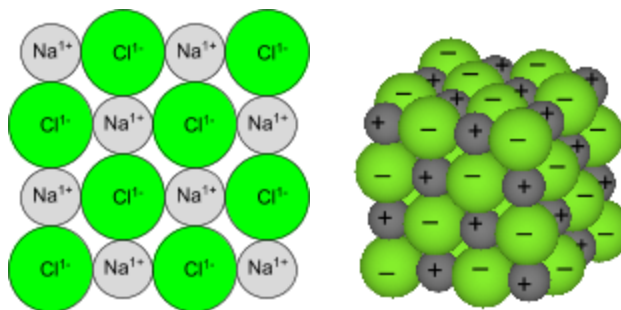


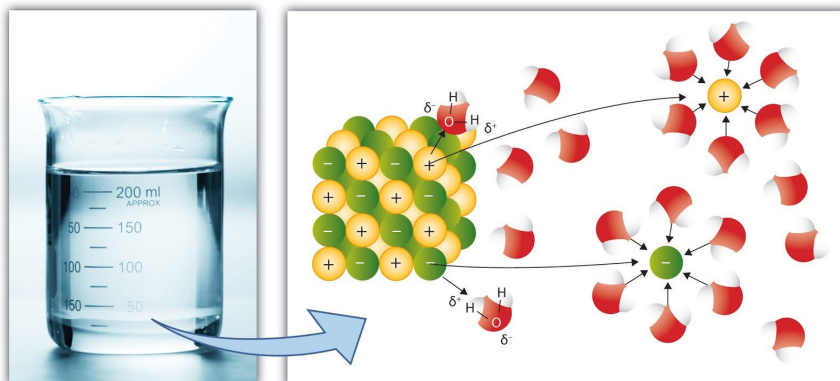
Solids:

Ionic Salts: sodium chloride (NaCl), copper (II) chloride (CuCl_2) and baking soda (NaHCO_3)

Ionic salts are made of positive metal ions (Na^{1+}) and negative nonmetal ions (Cl^{1-}) arranged in a crystal lattice. Ions are held strongly together in a crystal lattice, and therefore, cannot move.

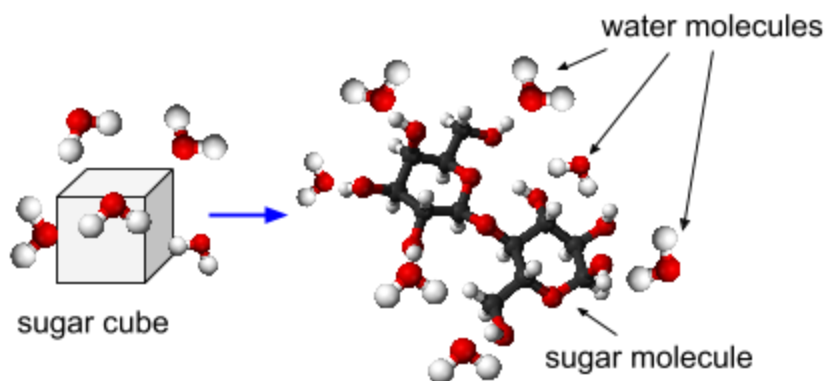
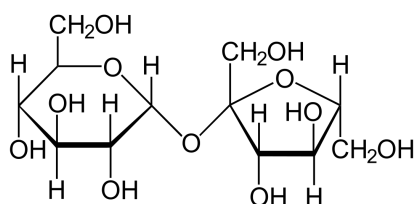


When an ionic salt dissolves in water positive and negative ions can move freely among water molecules:



Molecular (covalent) solids:
sugar ($\text{C}_{12}\text{H}_{22}\text{O}_{11}$)

Molecular solids are made of non-metals only.



Metals: copper metal (Cu), magnesium metal (Mg)

