

Date:

## Unit 6: Properties of Ionic Solutions – Freezing and Boiling Points

How do different substances dissolve?

Dissolution : The process of dissolving. Most substances dissolve when water breaks the solute into

individual Dartic . The water then

surrounds the solute molecules.

Crystal Lattice of NaCl (table salt)

salt crystal. The

dissolution

Water is.

meaning one side is slightly

negatively charged

(Oxygen) and the other side is slightly

charged (Hydrogens)

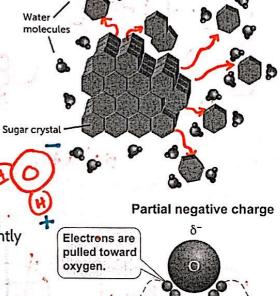
\_side of water is

\_ ions in the

side of water is attracted to the

oxygen.

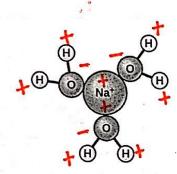
How Sugar Dissolves in Water



ions in the salt crystal. The water pulls each salt ion out of its solid form until each ion is surrounded by water molecules (dissolved). This is called

**Key Point:** 

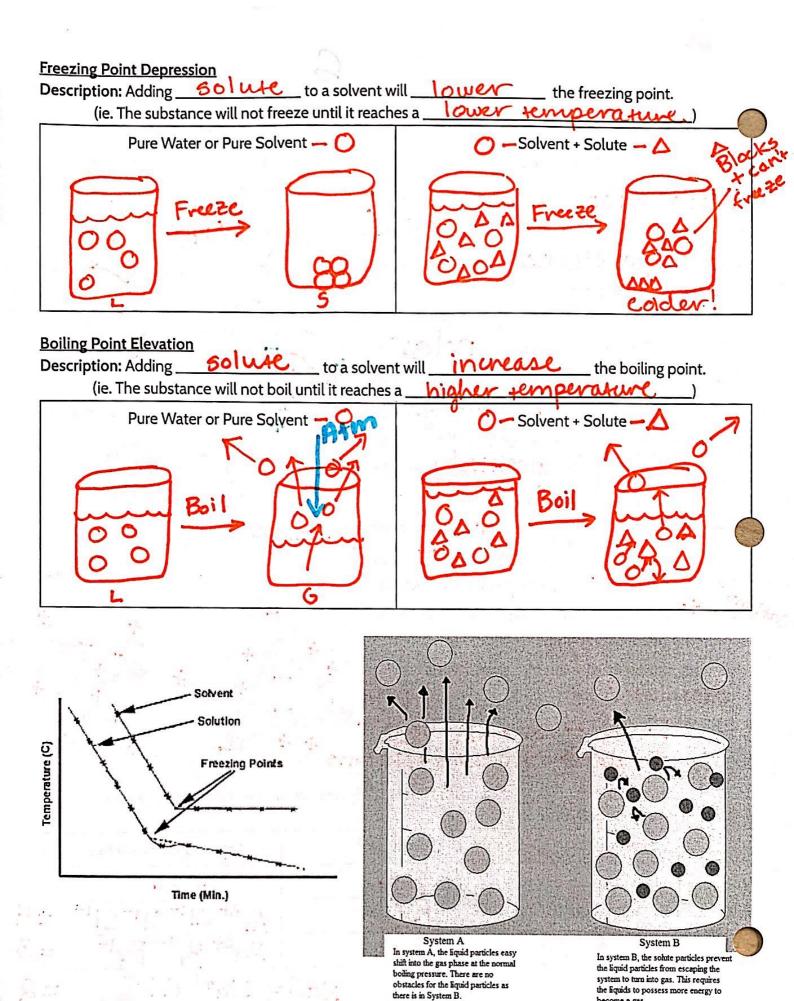
Lent - All NM's - No lons



Partial positive charge

Practice: Determine if the substance is ionic. If so, identify the number of ions and charge of each ion.

Substance	Ionic or Not?	Ions and Charge of Ions
Sucrose (C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> )	Not	200 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Aluminum Chloride (AlCl <sub>3</sub> )	lonic	A13+ C1-C1-C1-
Magnesium Bromide (MgBr <sub>2</sub> )	lonic	Mg2+ Br1- Br1-



become a gas.