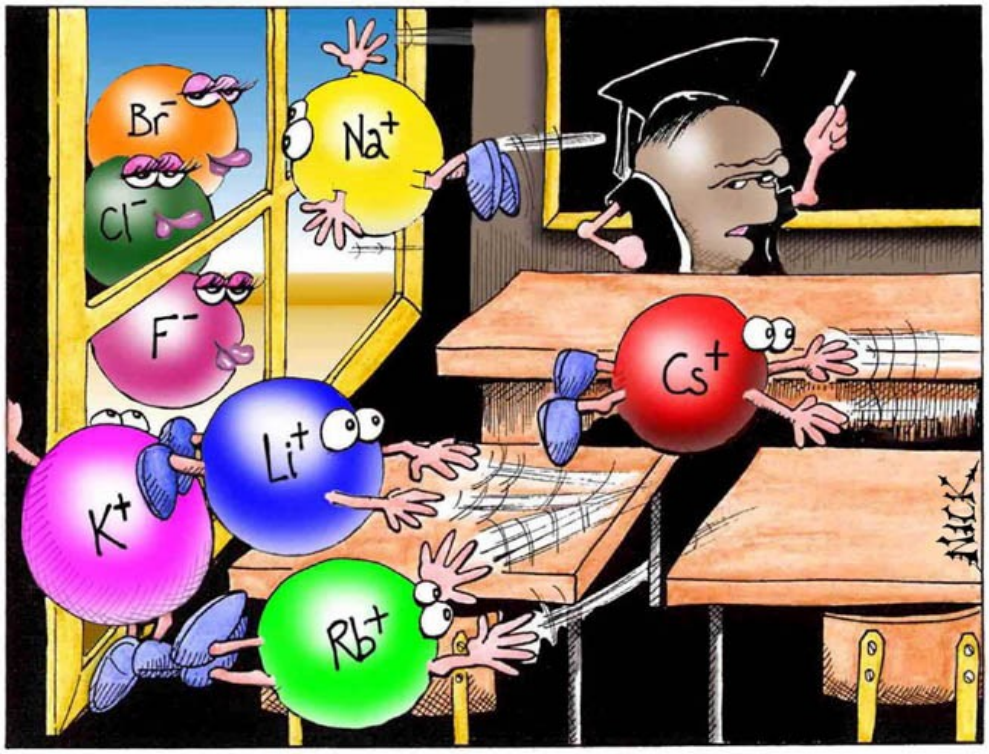
Name:_____

Ionic Compounds and Solutions

SNC2D

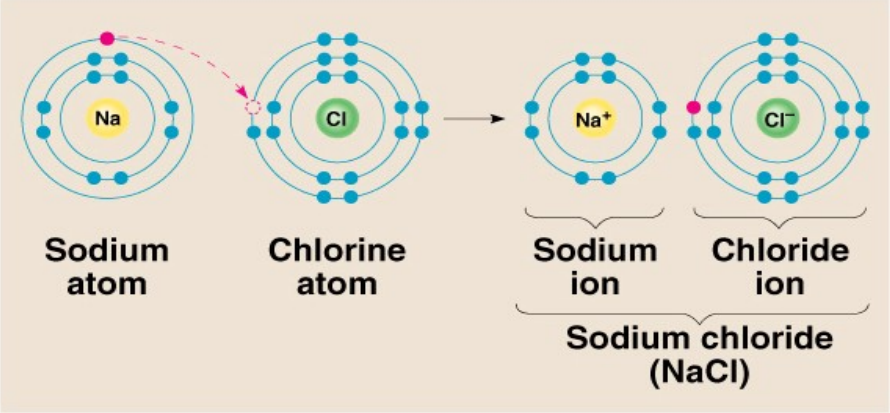


"Perhaps one of you gentlemen would mind telling me just what it is outside the window that you find so attractive..?"

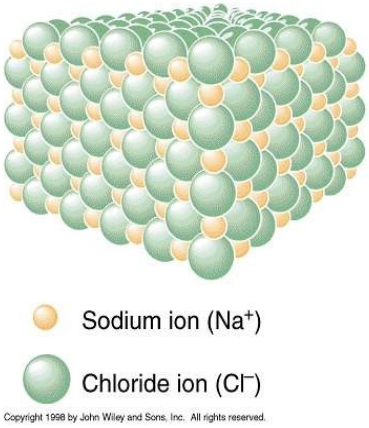
When a metal gives up one or more electrons to a non-metal, the resulting oppositely-charged ions will experience an electrostatic attraction.

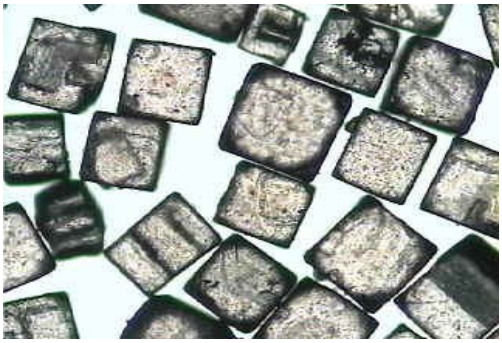
This electrostatic attraction is called an _____.

The resulting compound is an _____.



In nature, this electrostatic attraction produces regular crystal lattice structures:



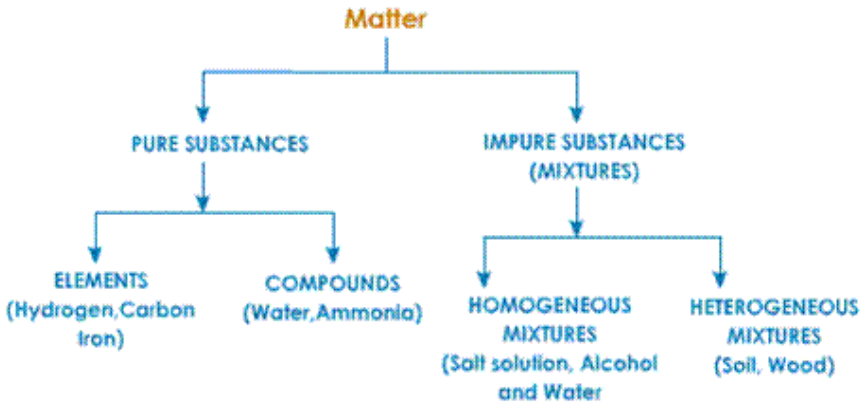


Ionic compounds:

- at room temperature, are usually hard, brittle solids that can be crushed
- have high melting and boiling points
- _____

An ionic compound dissolved in water is said to be _____

Recall that a solution is a _____ of _____;
in this case, the ionic compound and water.



These compounds dissolve in water because one side of the water molecule (H_2) is positive and attracts the negative ions and the other side is (O) is negative and attracts the positive ions. (More on this in senior chemistry.)