

Ionic Bonds

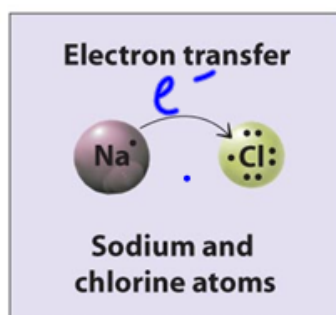
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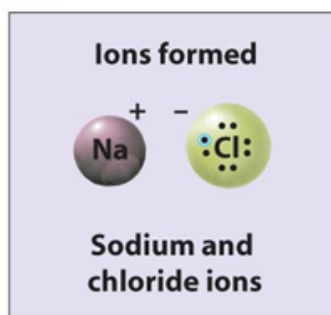


Valence electrons are the electrons in the outer ring/shell of an atom.

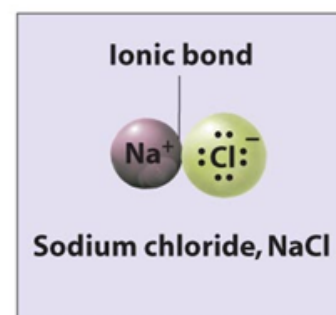
When valence electrons are **transferred** from a metal to a nonmetal, an ionic bond results between the cation and anion.



①



②

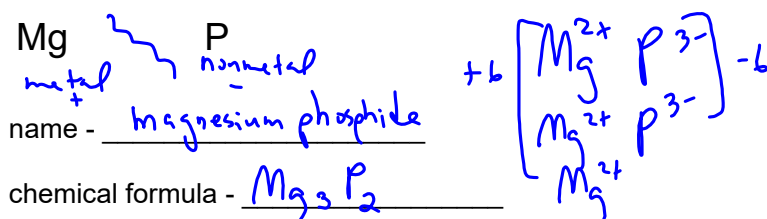
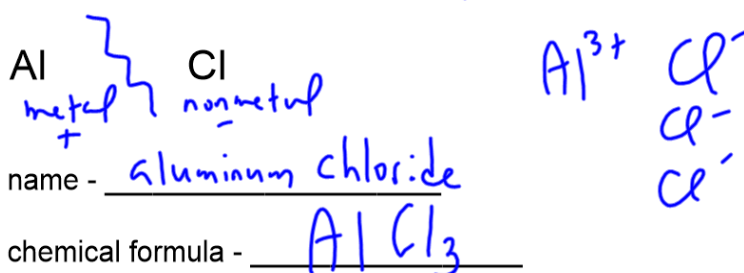
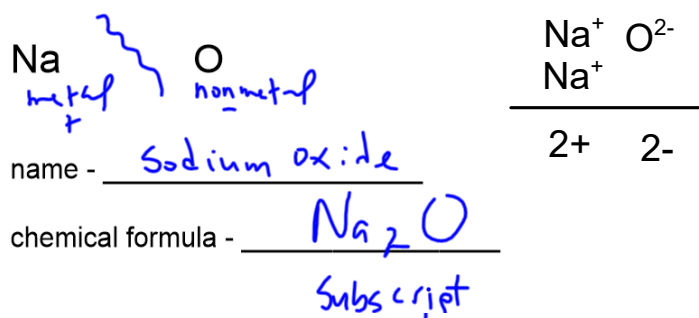
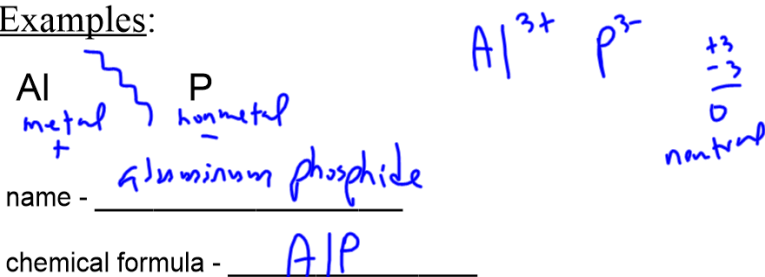


③

Simple Binary Ionic Compounds

Ionic compounds are formed by the combination of a cation and an anion and are electrically neutral. Binary compounds are compounds that contain only two elements.

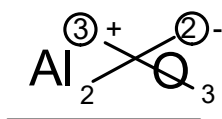
Examples:



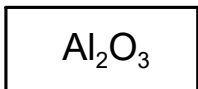
Shortcut

Criss-Cross and Slide

aluminum oxide



Charge value of each ion becomes the subscript for the other ion.



Nomenclature Worksheet 2: Simple Binary Ionic Compounds