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Name	Date

Use with Section 2:6.

IONIC COMPOUNDS

lonic compounds form when atoms lose or gain electrons, ions combine with other ions of opposite charge to form compounds. Compounds are always composed of atoms of at least two different elements.

A. Formation

If an atom loses one electron, the resulting ion has a single positive charge (1+). If it loses two electrons, the resulting ion has two positive charges (2+). If an atom gains one electron, the resulting ion has a single negative charge (1-). If it gains two electrons, the resulting ion has two negative charges (2-).

Using the list given in the table below, write the chemical formula for each compound. One has been done for you. Use these two rules to write the formulas.

- 1. The total number of negative charges must equal the total number of positive charges in a compound.
 - 2. The positive ion is always written first.

Form 1+ ions	Form 2+ ions	Form 1 – ions	Form 2 - ions
H (hydrogen) Li (lithium) Na (sodium) K (potassium)	Be (beryllium) Mg (magnesium) Ca (Calcium)	F (fluorine) CI (chlorine) Br (bromine) I (iodine)	O (oxygen) S (sulfur) Se (selenium)

LICI			
Lithium chloride	Magnesium fluoride	Sodium chloride	Potassium sulfide
Calcium oxide	Beryllium fodide	Hydrogen bromide	Sodium fluoride
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	than one of a particular a	tom in a molecule, how o	lo you indicate It?