

Bonding Basics

ANSWER KEY

Section A: Complete the chart using a periodic table to help you.

Element	Atomic Symbol	Total # of Electrons	# of Valence Electrons	# of Electrons Needed to Gain or Lose (to Full Outer Shell)	Oxidation Number
Chlorine	Cl	17	7	Gain 1	1-
Potassium	K	19	1	Lose 1	1+
Magnesium	Mg	12	2	Lose 2	2+
Fluorine	F	9	7	Gain 1	1-
Aluminum	Al	13	3	Lose 3	3+
Sodium	Na	11	1	Lose 1	1+
Nitrogen	N	14	4	Gain 3	3-
Oxygen	O	8	6	Gain 2	2-
Hydrogen	H	1	1	Gain or Lose 1	1+ or 1-
Carbon	C	6	4	Gain or Lose 4	4+ or 4-
Iodine	I	53	7	Gain 1	1-

Answer these questions:

- An atom that gains one or more electrons will have a **NEGATIVE** charge.
- An atom that loses one or more electrons will have a **POSTIVE** charge.
- An atom that gains or loses one or more electrons is called an **ION**.
- A positive ion is called a **CATION** and a negative ion is called an **ANION**.

Bonding Basics Review Key

Timothy J. Gallagher

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Bonding Basics Review Key:

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