Ionic Bonding

SNCIDI

Refresher!

- Atoms form ionic compounds by donating and accepting electrons to reach a full VALENCE SHELL
- Metals tend to lose electrons
 - become POSITIVE IONS
- Non-metals tend to gain electrons
 - become NEGATIVE IONS

Which of the following would form a 1+ ion?

- A: Ca
- B:Al
- C: Li
- D: Ne

How many valence electrons does Aluminium have?

- A: 4
- B: 3
- C: 2
- D: I

Metals tend to _____electrons, non-metals tend to ____electrons

- A: lose; gain
- B: gain; lose
- C: attract; repel
- D: lose; lose

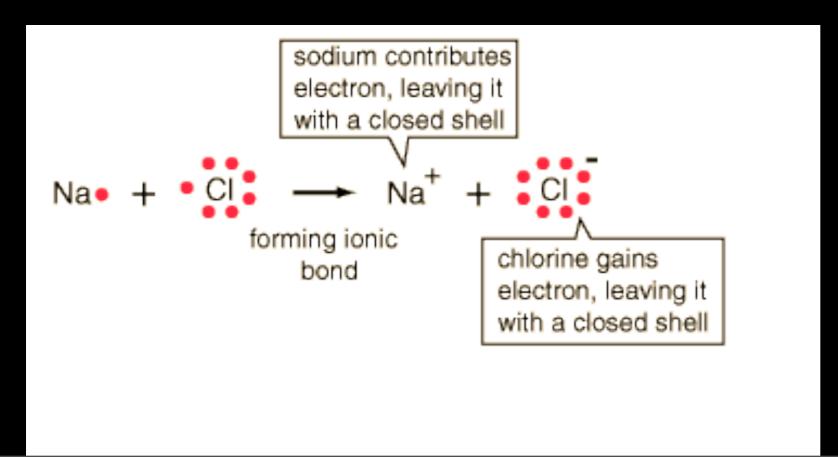
Oxygen has 6 valence electrons. What will the charge be on oxygen as an ion?

- A: I-
- B: 2-
- C: |+
- D: 2+

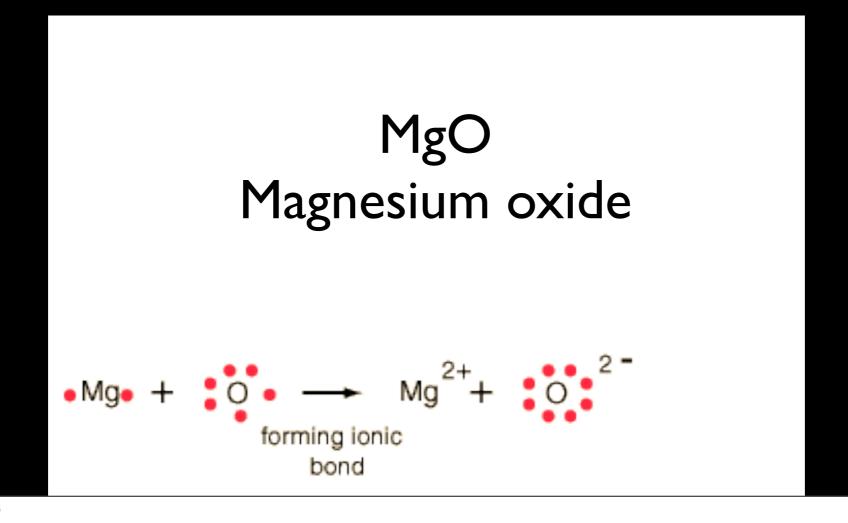
When an atom of calcium bonds with chlorine, what will the chemical formula be?

- A: CaCl
- B: CaCl₂
- C: C|Ca
- D: ClCa₂

Using Lewis diagrams, -show the bonding between sodium & chlorine -write the formula -name the compound

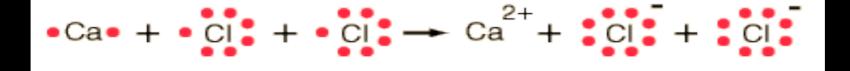


NaCl Sodium chloride Using Lewis diagrams,
-show the bonding between
magnesium & oxygen
-write the formula
-name the compound



Using Lewis diagrams,
-show the bonding between
calcium & chlorine
-write the formula
-name the compound

CaCl₂
Calcium chloride



Complete! -lonic compounds: Names & formulas worksheet -p.21 in your workbook