

## CK-12 Chemistry - Basic Answer Key

### Chapter 8: Ionic and Metallic Bonding

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#### 8.1 Ions

##### Practice 8.1

Write the ground state configuration for the metal calcium, and predict the ion form it must become to be isoelectric with the nearest noble gas.

Answer:

Ca:  $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2$  or  $[\text{Ar}]4s^2$

The nearest noble gas to calcium is  $[\text{Ar}]$ . So calcium will typically lose two electrons to become isoelectric with  $[\text{Ar}]$ .

##### Practice 8.2

Write the ground state configuration for the nonmetal sulfur, and predict the ion form it must become to be isoelectric with the nearest noble gas.

Answer:

S:  $1s^2 2s^2 2p^6 3s^2 3p^4$  or  $[\text{Ne}]3s^2 3p^4$

The nearest noble gas to sulfur is  $[\text{Ar}]$ , so sulfur will typically gain two electrons to become  $[\text{Ne}] 3s^2 3p^6$  which is isoelectric with  $[\text{Ar}]$

#### Lesson Review Questions

##### Questions

1. Draw electron dot diagrams for one metal and one nonmetal from the periodic table.
2. Predict which of the following will likely become a cation or an anion.
  - a. Ca
  - b. Na
  - c. F
  - d. Br
  - e. S
3. Write the ground state configuration for the following elements and predict the ion form it must become to be isoelectric with the nearest noble gas.
  - a. Be

# Ionic And Metallic Bonding Answer Key

**Mary Millhollon, Richard H. Langley**



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