

Activity 9: Valence and the Periodic Table

Learning Objectives

Determine the number of valence electrons in elements 1–20

Estimated Completion Time 15 Minutes

Instructor Information

This short activity asks students to note trends in number of valence electrons in atoms and ions for the first 20 elements. It is an essential activity prior to Activity 10.

ANSWERS TO QUESTIONS

1. a. 4 b. 7 c. 6 d. 4
2. Yes, they are in the same group on the periodic table.

Activity 9: Skill Development

1. a. 7 b. 7 c. 1 d. 3
2. a. 5 b. 2 c. 8 d. 8