NAME DATE CLASS

Chapter 4

REINFORCEMENT

Use with Section 1

• Why do atoms combine?

Choose from the following terms. Complete the sentences below. Some of the terms may not be used.

atomic structure	electron dot	outer
electron	first	proton
electron cloud	nucleus	second

1. An element can have from one to eight electrons in its _____ energy level.
2. The closer a(n) _____ is to the nucleus, the stronger the attractive force.
3. An atom's _____ contains its protons and neutrons.
4. A(n) _____ model tells where an atom's electrons are most likely to be.
5. The chemical symbol for an element surrounded by as many dots as there are electrons in its outer energy level is called a(n) _____ diagram.
6. The _____energy level of an atom can hold only two electrons.
7. The _____energy level of an atom can hold eight electrons.
8. Each element has a different number of protons and electrons, so each has a different _____.

Explain how the arrangement of electrons in an atom is related to the periodic table: