

## REVIEW

## 3

## SECTION 3.2

## A Guided Tour of the Periodic Table

1. **Write** the chemical symbol for each of the following elements:

\_\_\_\_\_ a. manganese

\_\_\_\_\_ d. uranium

\_\_\_\_\_ b. lead

\_\_\_\_\_ e. radon

\_\_\_\_\_ c. carbon

\_\_\_\_\_ f. silver

2. **State** the importance of valence electrons in the organization of the periodic table.

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3. **Describe** the difference between the atomic number and the mass number of an atom.

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4. **Understanding Systems** Why do atoms of Group 1 elements lose electrons to form cations, while atoms of Group 17 elements gain electrons to form anions?

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5. **Create** a chart that shows the different isotopes of hydrogen. State the name of each isotope, and write the number of protons, neutrons, and electrons found in each isotope.

6. **Explain** how the relative abundance of each hydrogen isotope affects hydrogen's average atomic mass.

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