

Vocabulary and Section Summary A

Elements

VOCABULARY

In your own words, write a definition of the following terms in the space provided.

1. element

2. pure substance

3. metal

4. nonmetal

5. metalloid

SECTION SUMMARY

Read the following section summary.

- A substance in which all of the particles are alike is a pure substance.
- An element is a pure substance that cannot be broken down into anything simpler by physical or chemical means.
- Each element has a unique set of physical and chemical properties.
- Elements are classified as metals, nonmetals, or metalloids, based on their properties.

Vocabulary and Section Summary A

Compounds

VOCABULARY

In your own words, write a definition of the following term in the space provided.

1. compound

SECTION SUMMARY

Read the following section summary.

- A compound is a pure substance composed of two or more elements.
- During a chemical reaction, the atoms of two or more elements react with each other to form molecules of compounds.
- Each compound has unique physical and chemical properties that differ from those of the elements that make up the compound.
- Compounds can be broken down into simpler substances only by chemical changes.

Vocabulary and Section Summary A

Mixtures

VOCABULARY

In your own words, write a definition of the following terms in the space provided.

1. mixture

2. solution

3. solute

4. solvent

5. concentration

6. solubility

Vocabulary and Section Summary A *continued*

SECTION SUMMARY

Read the following section summary.

- A mixture is a combination of two or more substances, each of which keeps its own characteristics.
- Mixtures can be separated by physical means, such as filtration and evaporation.
- A solution is a mixture that appears to be a single substance but is composed of a solute dissolved in a solvent.
- Concentration is a measure of the amount of solute dissolved in a given amount of solvent.
- The solubility of a solute is the ability of the solute to dissolve in a solvent at a certain temperature.