Study Guide

CHAPTER 6

Section 3: Water and Solutions

In your textbook, read about water's polarity.

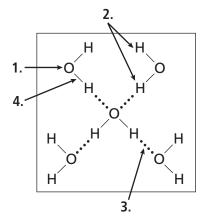
Label the diagram. Use these choices:

covalent bond hydrogen bond

- 1. slightly negative end
- slightly positive end
- 3. hydrogen bond
- a covalent bond

slightly negative end

slightly positive end



In your textbook, read about mixtures with water.

For each statement below, write true or false.

- true
- **5.** A mixture is a combination of two or more substances in which each substance retains its individual characteristics.
- true at the beginning
- **6.** A suspension is a mixture that has a uniform composition throughout.

9. A suspension is a homogeneous mixture in which water is mixed with

- false, solute
- **7.** In a mixture, the solvent is the substance that is dissolved.
- true false, heterogenous
- **8.** A mixture of sand and water is a heterogeneous mixture.
- a substance that does not dissolve in it.

In your textbook, read about acids and bases.

Use each of the terms below only once to complete the passage.

acids or strong bases to keep the pH within a particular range.

acius	vases	biology	bullets	nyurugen ions	neutrai	pm
Substances that (10) acids	•	C		ter are called hydrogen ions	a s	ubstance
releases, the more acidic the solution becomes. Substances that release hydroxide ions when dissolved in water are called (12) Acids and bases are key substances in						
(13) biolo (14) ph	gy	Th	e concentration	n of hydrogen ions in a <mark>neutral</mark>	solution is ca	alled
value of 7.0. (16)				ak acids or weak bases		-