	<u> </u>	Section 6.1
Name	Date	Vocabulary
Use with textbook pages 160–164.		Chapter 6

Solutes and solvents

ocabulary			
soluble	insoluble	concentration	dilute solution
concentrate	d solution		
	_	above to fill in the blankse to show you understand	
****		means able to dissolve in	a certain solvent.
		×	
A material th		lve in a certain substance	
A(n)		has a large mass of	dissolved solute for a
certain quan	tity of solvent.		
	of solute that is diss	solved in a certain quantity of the solution.	of solvent is the
A(n)		has a small mass of	dissolved solute for a
	tity of solvent.		

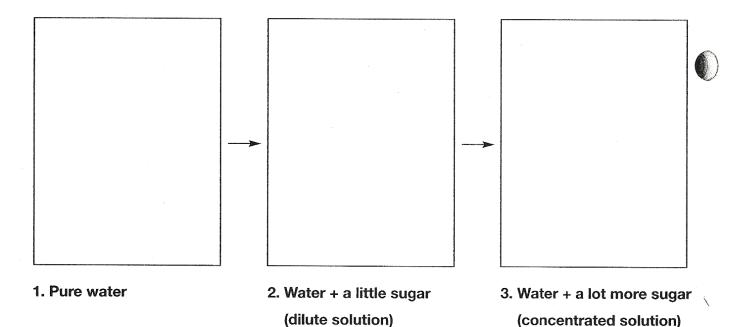
Name	Date	Concepts
Use with textbook pages 160–164.		Chapter 6

Illustrating dilute and concentrated solutions

The particle model of matter provides a way to visualize the particles in solutions. For example, look at Figure 6.3 C on page 162 of your textbook. Create similar models to illustrate the situations described below.

Use the particle model to draw how the particles of the liquid look at the end of each of the following steps.

- 1. A student has some pure water.
- 2. The student adds a little sugar to the water and stirs until all the sugar dissolves.
- 3. Then the student adds a lot more sugar to the water and stirs until it all dissolves.



Illustrating

		Section 6.1
Name	Date	Comprehension
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True or false?

Read section 6.1 about solutes and solvents.

Read the statements given below. If the statement is true, write "T" on the line in front of the sentence. If it is false, write "F" and circle the word or words that make it false.

1 Soluble substances can dissolve in certain solvents.
2 Insoluble substances can dissolve in all solvents.
3 All substances are soluble in water, which is called the "universal solvent."
4 Table salt is insoluble in water.
5 Grass stains are difficult to wash out because chlorophyll is insoluble in water.
6 When sugar dissolves in water, water particles pull sugar particles off the sugar crystal.
7 Water particles are not actually water molecules.
8 Concentrated solutions contain a large amount of solute for a certain volume of solvent.
9 Dilute solutions contain a large amount of solute for a certain volume of solvent.
0 Solutions with high concentrations of solutes are concentrated.
1 Solutions with low concentrations of solutes are dilute.
2 You can decrease the concentration of a solution by adding more solute.

Name	Date	Knowledge
Use with textbook pages 160–164.		Chapter 6

Solutes and solvents

Define the terms "solute" and "solvent" in your own words. Then list the solvent and the solute for each solution that follows.

Define these terms in your own	า words.
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Solute:
Solvent:
each solution, identify the solvent and the solute.
Taku mixed some water and juice crystals to make a fruit drink.
(a) The solute is
(b) The solvent is
Kim swished salt water in her mouth after she lost her tooth in a soccer game.
(a) The solute is
(b) The solvent is
Rosanna put rubbing alcohol on the grass stain that was on her sock.
(a) The solute is
(b) The solvent is
Justin added a little sugar to his tea because it tasted bitter.
(a) The solute is
(b) The solvent is
The tea from Mei's tea bag coloured the water as it brewed.
(a) The solute is
(b) The solvent is

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