

## 5-5 What is the concentration of a solution?

### Lesson Review

Complete the following.

1. A concentrated solution has a \_\_\_\_\_ amount of dissolved solute.
2. A solution that contains less solute than it can hold at a given temperature is said to be \_\_\_\_\_.
3. As the temperature of a solvent \_\_\_\_\_, the amount of solute it can hold increases.
4. A solution is said to be \_\_\_\_\_ if it can hold more solute than it already contains.
5. Dilute solutions are \_\_\_\_\_.
6. When no more solute will dissolve in a solution, the solution is said to be \_\_\_\_\_.
7. Concentrated solutions are \_\_\_\_\_.
8. If solute is added to a saturated solution, the solute will \_\_\_\_\_ of the solution.
9. A solution that contains more solute than it can normally hold at a given temperature is said to be \_\_\_\_\_.
10. A dilute solution has a \_\_\_\_\_ amount of dissolved solute.

### Skill Challenge

*Skills: applying concepts, interpreting diagrams*

Use the diagram to answer the following questions.

1. Is the solution shown in the diagram most likely saturated or unsaturated? How do you know?

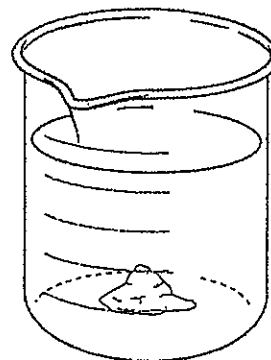
\_\_\_\_\_  
\_\_\_\_\_

2. What would likely happen if more solvent was added to the beaker and then stirred? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

3. What effect would heating the beaker and its contents probably have on the solution?

\_\_\_\_\_  
\_\_\_\_\_



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## 4-2 What are the parts of a solution?

### Lesson Review

Complete the following.

1. The \_\_\_\_\_ in a saltwater solution is salt.
2. A substance is said to be \_\_\_\_\_ if it is able to dissolve.
3. In a solution of salt and water, \_\_\_\_\_ is the solvent.
4. Granite is \_\_\_\_\_ in water.
5. The part of a solution that dissolves is called the \_\_\_\_\_.
6. Sugar is \_\_\_\_\_ in oil.
7. The part of a solution in which a solute dissolves is called the \_\_\_\_\_.
8. When a substance does not dissolve in another substance, it is said to be \_\_\_\_\_.
9. In a sugar-water solution, \_\_\_\_\_ is the solute.
10. Sand is \_\_\_\_\_ in water.

### Skill Challenge

*Skills: identifying, synthesizing*

Identify the solute and solvent in each of the following solutions.

| Solution                 | Solute | Solvent |
|--------------------------|--------|---------|
| 1. Salt water            |        |         |
| 2. Sugar water           |        |         |
| 3. Club soda             |        |         |
| 4. Water droplets in air |        |         |
| 5. Coffee                |        |         |

Word box for 1-10

solute (2) solvent (1)  
insoluble (4) water (1)  
sugar (1) soluble (1)