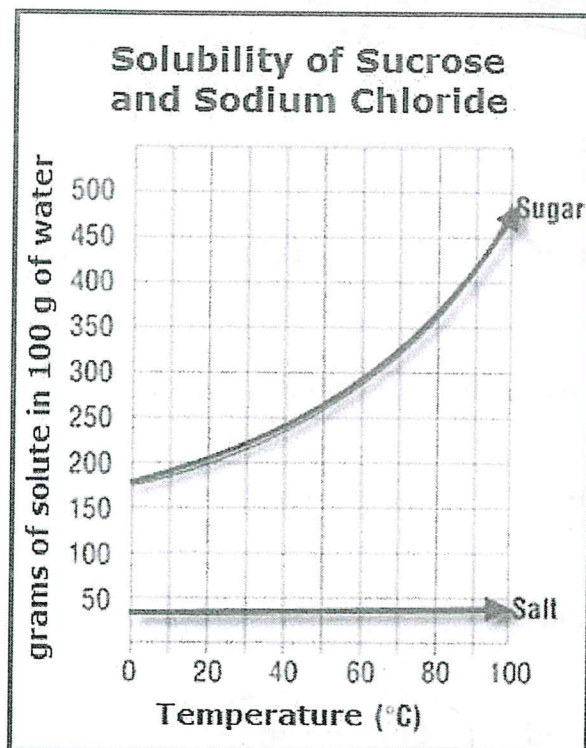


Name: Answers

Class: _____

Solubility is a measure of how much of a specific solute will dissolve in a given solvent at a given temperature. The following table shows how the solubility of two common materials change with temperature.

Source: <http://kingbee.us/archives/366>

Use the table to answer the following questions – you may search information on the internet or a personal device.

1. What is the common name for Sucrose?

sugar

2. What is the common name for Sodium Chloride?

salt

3. Which one has the greater solubility?

sugar

4. Which one changes the most as temperature changes?

sugar

5. Any solution that is directly on the line is known as (circle one):

Dilute Unsaturated Concentrated **Saturated** Supersaturated

6. Any solution that is below the line is known as (circle one):

Dilute **Unsaturated** Concentrated Saturated Supersaturated

7. Any solution that is above the line is known as (circle one):

Dilute Unsaturated Concentrated Saturated **Supersaturated**

8. Any solution that is far below the line is known as (circle one):

Dilute Unsaturated Concentrated Saturated Supersaturated

9. Any solution that is just below the line is known as (circle one):

Dilute Unsaturated **Concentrated** Saturated Supersaturated

10. Use the information that you have found to label the graph.

see table

11. What typically happens to a supersaturated solution?
solute comes out of solution by crystallizing and forming crystals of the solute

12. If you wanted to grow sugar crystals, what would you do? Be specific.

create a warm/hot solution that is saturated 400g of sugar in 100° water, then cool the solution so it is supersaturated and crystals form.

