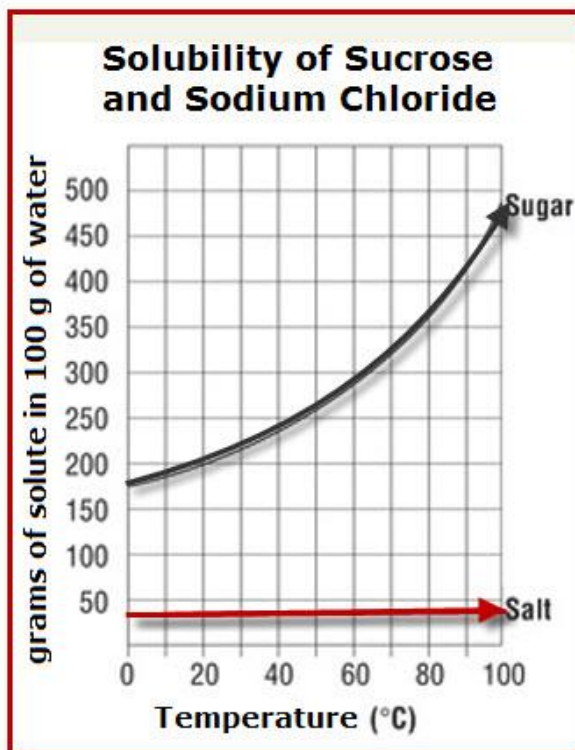


Grade 7 Science – Pure Substances and Mixtures - Solubility

Name: _____

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?
2. What is the common name for Sodium Chloride?
3. Which one has the greater solubility?
4. Which one changes the most as temperature changes?

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.

11. What typically happens to a supersaturated solution?

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

