

Solubility Graph Worksheet

Name _____ Date _____ Period _____

Remember to refer to the solubility graph study guide for hints on using a solubility graph.

1. Why do the temperatures on the graph only go from 0°C to 100°C ? _____

2. Which substance is most soluble at 60°C ? _____
3. Which two substances have the same solubility at 80°C ? _____

4. Which substance's solubility changes the most from 0°C to 100°C ? _____
5. Which substance's solubility changes the least from 0°C to 100°C ? _____
6. What is the solubility of potassium nitrate at 90°C ? _____
7. At what temperature does potassium iodide have a solubility of $150\text{ g}/100\text{ cm}^3$ water? _____
8. You have a solution of sodium nitrate containing 140 g at 65°C . Is the solution saturated, unsaturated, or supersaturated? _____
9. You have a solution of potassium chlorate containing 4 g at 65°C . How many additional grams of solute must be added to it, to make the solution saturated? _____
10. A solution of potassium iodide at 70°C contains 200 g of dissolved solute in 100 cm^3 water. The solution is allowed to cool. At what new temperature would crystals begin to start forming? _____

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