

SECTION

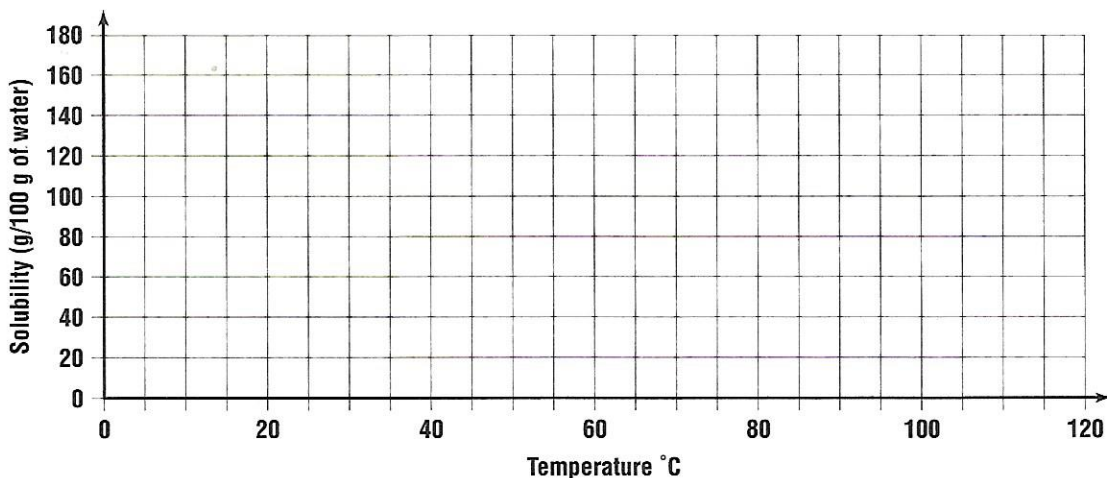
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Reinforcement

Solubility and Concentration

Directions: Use the information in the table to graph the solubility curves for barium hydroxide, $Ba(OH)_2$; copper(II) sulfate, $CuSO_4$; potassium chloride, KCl ; and sodium nitrate, $NaNO_3$. Use a different colored pencil for each compound.

Solubility in g/100 g Water				
Compound	Temperature			
	0°C	20°C	60°C	100°C
$Ba(OH)_2$	1.67	3.89	20.94	101.40
$CuSO_4$	23.10	32.0	61.8	114.0
KCl	28.0	34.2	45.8	56.3
$NaNO_3$	73.0	87.6	122.0	180.0



Directions: Use the information in the table and your graph to answer the following questions.

- At about what temperature will 100 g of water dissolve equal amounts of potassium chloride and barium hydroxide? _____
- At about what temperature will 37 g of both copper(II) sulfate and potassium chloride dissolve in 100 g of water? _____
- If 100 g of sodium nitrate are dissolved in 100 g of water at 60°C, is the solution formed saturated, unsaturated, or supersaturated? _____
- If 32 g of copper (II) sulfate are dissolved in 100 g of water at 20°C, is the solution produced saturated, unsaturated, or supersaturated? _____