CONCEPT: SOLUBIL	LITY: TEMPERATURE EFFECT
When an ionic solid d	issolves, ions leave the solid and become dispersed in the solvent.
In a(n)	solution the maximum amount of dissolved solute is present in the solvent.
In a(n)	solution additional amounts of solute can be further dissolved in the solvent.
In a(n)	solution more than the equilibrium concentration of solute has been dissolved.
EXAMPLE: Caffeine	is about 10 times as soluble in warm water as in cold water. A student puts a hot-water extract caffeine
	some caffeine crystallizes. What is the identity of the solution before it's been placed in an ice bath?
a) Saturated	
b) Super saturated	
c) Unsaturated	
d) Not enough inform	ation to answer the question.
PRACTICE: In gener	al, as the temperature increases, the solubility of gas in a given liquid, and the
_	ds in a given liquid
a) Increases, increase	
b) Increases, decreas	es
c) Decreases, increas	ses

d) Decreases, decreases