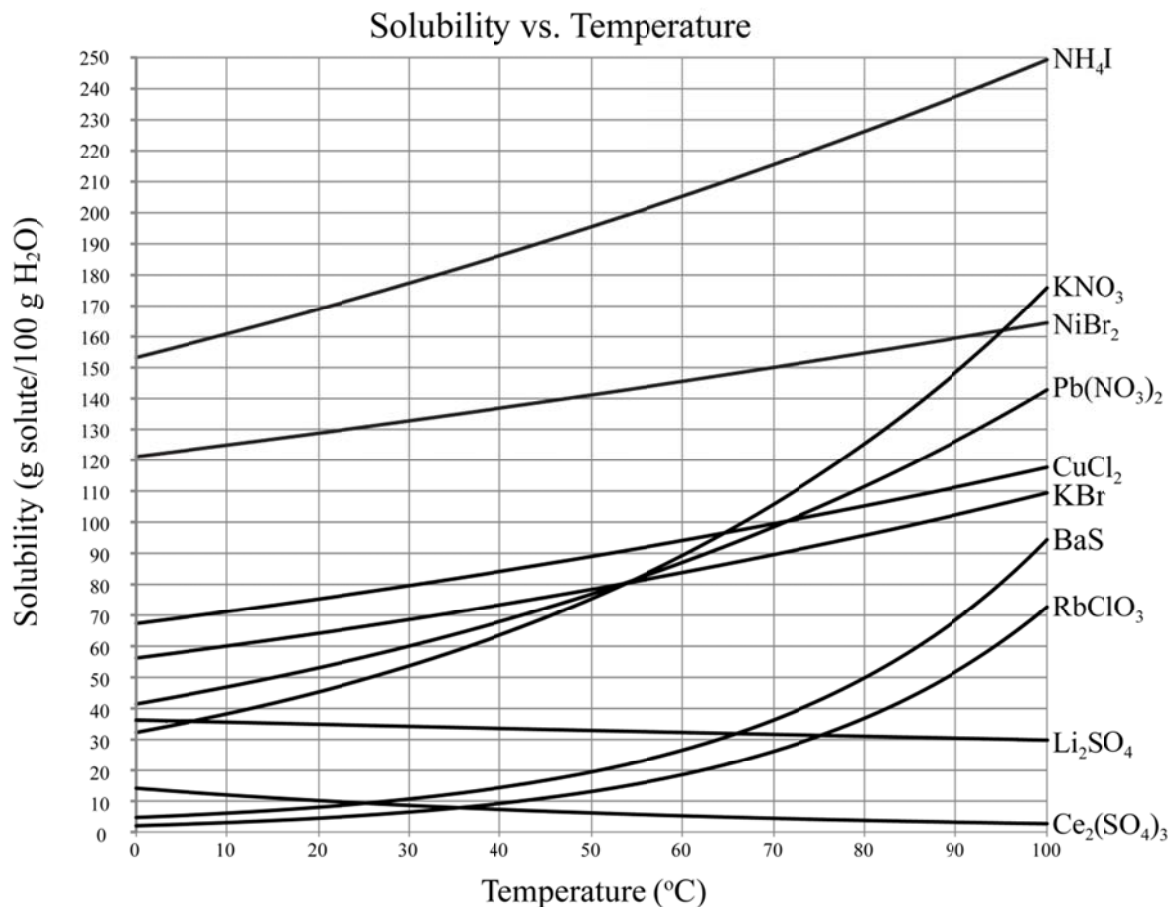


Solubility and Temperature

Name: _____

Period: ____

Use the given solubility curve to answer the questions below.



- (1) In general, what happens to the solubility of a salt as temperature increases? What salts are exceptions to this trend?
- (2) Write the chemical name of each salt beside the formula on the solubility curve.
- (3) Which salt has a solubility of approximately 105 g (per 100 g H₂O) at 70 °C?
- (4) Which salt has a solubility of approximately 80 g (per 100 g H₂O) at 30 °C?
- (5) What is the solubility (in g solute /100 g H₂O) of KBr at 60 °C?
- (6) What is the solubility (in g solute /100 g H₂O) of Ce₂(SO₄)₃ at 20 °C?
- (7) What is the solubility (in g solute/100 g H₂O) of NH₄I at 10 °C?
- (8) What is the solubility (in g solute /100 g H₂O) of Pb(NO₃)₂ at 80 °C?
- (9) What is the solubility (in **mol** solute /100 g H₂O) of RbClO₃ at 90 °C?
- (10) What is the solubility (in **mol** solute /100 g H₂O) of BaS at 50 °C?
- (11) What is the solubility (in **mol** solute /100 g H₂O) of NiBr₂ at 40 °C?
- (12) What is the solubility (in **mol** solute /100 g H₂O) of Li₂SO₄ at 100 °C?