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Name: Date:
Notes: Solubility and the Rate of Dissolving of Solids
Define <i>solute</i> :
Define <i>solvent</i> :
Why is water such a great solvent?
Label the water molecule to the right with the correct partial charges.
What happens to ionic compounds when they dissolve?
Define <i>solubility</i> :
What do we call compounds that WILL dissolve in water?
What do we call compounds that WILL NOT dissolve in water?
Determine if the following compounds are soluble (S) or insoluble (I)
AgBr Na ₂ CO ₃ MgSO ₄ Ca(OH) ₂
$Pb(NO_3)_2$ Hg_2Cl_2 K_3PO_4 $Sr(C_2H_3O_2)_2$
What is solubility directly related to?
What is a solubility curve for?
1. What is the solubility of potassium nitrate at 90°C?
2. At what temperature will 120 g of sodium chlorate dissolve?
3. What is the solubility of sodium chloride at 30°C?
4. At what temperature will 110 g of potassium bromide dissolve?
5. At which temperature do KBr and KNO₃ have the same solubility?
6. According to the graph, at what temperature is 100g of water saturated with NaClO $_3$ if 140 grams of NaClO $_3$ are dissolved?
How does increasing the temperature affect the solubility of a solid?
How does decreasing the temperature affect the solubility of a solid?

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How does increasing the air pressure affect the solubility of a solid?
How does decreasing the air pressure affect the solubility of a solid?
Define <i>rate of dissolving</i> :
How does increasing the temperature affect rate of dissolving of a solid?
How does decreasing the temperature affect rate of dissolving of a solid?
How does agitating/stirring affect rate of dissolving?
Does stirring allow you to dissolve more solute?
How does the surface area of the solute particles affect the rate of dissolving?
Why do small crystals dissolve faster?
What can be used to crush larger crystals?
How does increasing the air pressure affect rate of dissolving of a solid?
How does decreasing the air pressure affect rate of dissolving of a solid?
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Key:

NaClO₃ = sodium chlorate

KNO₃ = potassium nitrate

KBr = potassium bromide

NaCl = sodium chloride

