





Dissolving	
Solid in a liquid	0
Water molecules	around solid molecules
(ends are attracted to	
ends), the water molecules pull the	
sugar molecules into the solution, and then all molecules spread out	
Gas in a liquid	
Similar, but particles move _	than a solid.
Solid in a solid	
and the	en, the atoms
spread out evenly and will stay mixed when cooled.	









Solubility Curve Practice

- What mass of sodium nitrate would have to be dissolved in 100 grams of water to form a saturate solution at 20°C?
- What mass of potassium chlorate would have to be dissolved in 100 grams of water to form a saturate solution at 70°C?
- What mass of solute will dissolve in 100mL of water at the following temperatures.
- KNO₃at 50°C
- NaCl at 100°C
- NaNO $_3$ at 10°C

Types of solution (based on amount of solute dissolved) • A _______ solution is one where the solution can _______. • A _______ solution is one that contains _______ of the dissolved material than could be dissolved by the solvent under normal circumstances A supersaturated solution is _______ from the solution.

Solubility Curve Practice

- 32 grams of potassium nitrate in 100 grams of water at 20°C would be a saturated solution, supersaturated, solution, or unsaturated solution?
- What type of solution would 45.8 grams of potassium chloride in 100 grams of water be at 20°C?

Solubility Curve Practice

- How many grams of NaCl per 100 g of water would be crystallized from a saturated solution as the temperature drops from:
 – 80°C to 20°C
- How many grams of KCI per 100 g of water would be crystallized from a saturated solution as the temperature drops from: – 90°C to 10°C
- How many grams of Pb(NO₃)₂ per 100 g of water would be crystallized from a saturated solution as the temperature drops from: - 40% to 20%