



# UNIT 7 – ACIDS, BASES & SOLUTIONS

IPOD Questions

# IT'S *THE* PROBLEM OF *THE* DAY

## IPOD # 36

Answer select questions **(1,3,5,6,8,9,10,13)** on the worksheet titled “Solubility Curves Practice Problems.”

When finished, staple or tape the worksheet into your IPOD book marked with **IPOD #34**.



# IT'S *THE* PROBLEM OF *THE* DAY

## IPOD # 37

1. A solution has a volume of 2.0 L and contains 36.0 g of glucose ( $\text{C}_6\text{H}_{12}\text{O}_6$ ). What is the molarity of the solution?
  
  
  
  
  
  
  
  
  
  
2. How many milliliters of a solution of 4.0 M KI are needed to prepare 250.0 mL of 0.76 M KI?



# IT'S *THE* PROBLEM OF *THE* DAY

## IPOD # 38

1. Classify each solution as acidic, basic, or neutral?
  - a)  $[\text{H}^+] = 6.0 \times 10^{-10} \text{ M}$
  - b)  $[\text{OH}^-] = 3.0 \times 10^{-2} \text{ M}$
2. If the pH of a solution is 5.0, determine the concentration of hydrogen-ion,  $[\text{H}^+]$ .
3. What is the pH of a solution that has a hydroxide-ion concentration,  $[\text{OH}^-] = 4.3 \times 10^{-5} \text{ M}$ ?



# IT'S *THE LAST* PROBLEM OF *THE DAY*

## IPOD # 39

1. How many milliliters of 0.45 M HCl will completely neutralize 25.0 mL of 1.00 M KOH?

