

# Chapters 1 and 2 Study Guide

- Solve the following equation for  $V_2$ :  $P_1V_1 = P_2V_2 = \frac{P_1V_1}{P_2}$
- Solve the following equation for  $m$ :  $\text{heat} = m \times \Delta T \times SH$   
 $m = \frac{\text{heat}}{\Delta T \times SH}$
- Write each of the following in scientific notation:
  - 3500  
 $3.5 \times 10^3$
  - 0.000 016  
 $1.6 \times 10^{-5}$
- Write each of the following in scientific notation:
  - 425 000  
 $4.25 \times 10^5$
  - 0.000 000 86  
 $8.6 \times 10^{-7}$
- State the type of measurement indicated in each of the following:
  - 45.6 g **Mass**
  - 1.85 L **Volume**
  - 14 cm **Length**
  - $6.3 \times 10^2$  mg **Mass**
- State the type of measurement indicated in each of the following:
  - 15 °C **Temperature**
  - 25 s **Time**
- Identify the significant zeros in each of the following measured numbers:
  - 0.000 250 m  
3 significant zeros
  - 70.040 g  
3 significant zeros
  - 1 000 000 L  
2 significant zeros
- Identify the significant zeros in each of the following measured numbers:
  - 0.04008 m  
3 significant zeros
  - $6.00 \times 10^3$  g  
4 sig (100 doesn't count zeros)
- Round off each of the following numbers to three significant figures:
  - 35.7823 m  $\rightarrow$  35.8 m
  - 0.002 621 7 L  
 $\rightarrow$  0.00262 L
  - $3.8268 \times 10^3$  g  
 $\rightarrow$  3.83  $\times 10^3$  g
- Perform the following calculations of measured numbers and give the answers with the correct number of significant figures:
  - $45.26 \times 0.010 88$   
 $= 0.4924128$   
 $0.4924$
  - $2.6 + 324 + 0.007 001$   
 $0.0080$
  - $\frac{4.0 \times 8.00}{16} = 2.0$   
 (2 significant zeros)

# Chemistry Ch 21 Answers Study Guide

**Tao Wei**



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