

Honors Chapter 1 Exam
25 questions: Multiple choice and Short Answer – 50 point total

- Conversions:
Metric conversions –(2)
Temperature conversions – (2)
Common conversion factors:
Density as a conversion factor (1)
- Significant Figures (4)
- Distillation and other forms of Separations
- Chemical and Physical Separations
- Density Equation solving for:
 - Volume (1)
 - Thickness (1)
 - Density (1)
 - Diameter of a Wire (1)
 - Mass (1)
 - Density to identify a substance – (1)
- Scientific Notation (1)
- Accuracy & precision (1)
- Intensive/Extensive properties – (2)
- Element Symbols
- Percent error
- Metric prefixes !
- Equations you need to know/use:
Density = mass/volume
 $^{\circ}\text{C} + 273.15 = \text{Kelvin temperature}$
 $V_{\text{rectangle}} = L \times W \times H \text{ (thickness)}$
 $V_{\text{cylinder}} = \pi r^2 h$
 $V_{\text{sphere}} = \frac{4}{3} \pi r^3 \text{ (this equation is provided)}$
 $\% \text{ error} = \frac{(\text{actual measurement}) - (\text{theoretical/known value})}{(\text{theoretical/known value})} \times 100\%$
- Vocabulary: accuracy, precision, solution, homogeneous, heterogeneous, intensive property, extensive property