

# The Mole and Molar Mass Homework – Student Edition

**1. Define the following terms...**

a) Molar mass

b)  $\text{g mol}^{-1}$

c) Isotope

**2. Calculate the molar mass for the following compounds. Remember to show all working**

a)  $\text{NH}_3$

b)  $\text{H}_2\text{SO}_4$

c)  $\text{Ca}(\text{HCO}_3)_2$

d)  $(\text{NH}_4)_2\text{SO}_4$

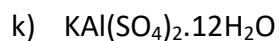
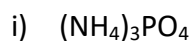
e)  $\text{FeSO}_4$

f)  $\text{Al}_2(\text{SO}_4)_3$

g)  $\text{C}_2\text{H}_5\text{OH}$

h)  $\text{Cu}(\text{NH}_3)_4\text{SO}_4$

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3. Calculate the relative atomic mass of oxygen using the information in the table below:

Isotope	Relative Abundance %
$^{16}\text{O}$	99.75
$^{17}\text{O}$	0.04
$^{18}\text{O}$	0.21